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इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2
[PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

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PATENTS AND DESIGNS

Calcutta, the 9th February 1985

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CORRIGENDUM

In the Gazette of India, Part-III, Section 2, dated the 29th September, 1984, Page 923, Column 1, under the heading "PATENTS SEALED" in 3rd line *for* number 145176 *read* 145196.

REGISTRATION AS PATENT AGENT

The following person has been registered as Patent Agent

1. Shri S. Y. Venkata Narasimhan
27, State Bank Street,
Gobichettipalayan 638 452,
Tamil Nadu,

APPLICATION FOR PATENT FILED AT THE HEAD OFFICE 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-17

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

2nd January, 1985

5/Cal/85. Musical String Research Bureau. Machine for preparing metal Musical Strings for Musical Instruments.

6/Cal/85. Fidia S. P. A. A method for preparing inner ester ganglioside derivatives. [Divisional date 29th July, 1982].

7/Cal/85. Metallgesellschaft Aktiengesellschaft. Apparatus for supplying bulk material to at least one consumer at a controlled rate.

8/Cal/85. Beloit Corporation. Curl Neutralizer.

3rd January, 1985

9/Cal/85. Beloit Corporation. A method and apparatus for headbox jet velocity measurement.

10/Cal/85. Beloit Corporation. Supercalender Nip Relieving Arrangement.

4th January, 1985

11/Cal/85. Companhia Industrias Brasileiras Portela. Process for preparation of bamboo-cane cellulose.

5th January, 1985

12/Cal/85. Pradip Kumar Routh. Improved Automatic Weighing Equipment for solid/sludge/liquid from an industrial silo/tank bottom spout.

7th January, 1985

13/Cal/85. Roberto Perlini. Oleodynamic control device for steering the pivotable wheels of vehicles provided with straight travelling stabilizer.

14/Cal/85. Reckitt & Colman of India Ltd. A device for use with flushing cisterns.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH MUNICIPAL MARKET BUILDING, 3RD FLOOR, KAROL BAGH, NEW DELHI-110005

17th December, 1984

942/Del/84. YWHC, INC., "Thermostatic steam trap".

943/Del/84. Colgate Palmolive Company, "Laminated Polyester containing substrate and collapsible dispensing container made therefrom".

18th December 1984

944/Del/84. CGEE Alsthom, "Control pulse generator for thyristore supplying a reactive power regulating inductor in an electrical power network".

945/Del/84. Corlexip, "Apparatus for making helically wound interlocked tubular structure".

946/Del/84. L'Air Liquide Societe Anonyme Pour L' Etude Et L' Exploitation Des Procedes Georges Claude, "Method and installation for recovering the heaviest hydrocarbons from a gaseous mixture".

19th December, 1984

947/Del/84. Alexander Christian Bristol, "Aspheric spectacle lans blank".

948/Del/84. Alexander Christian Bristol, "Aspheric spectacle lens blank".

20th December, 1984

949/Del/84. Harendra Kumar, "Multi filament bulb and its specifically designed holder.

950/Del/84. Harendra Kumar, "Controlled release insulin preparation".

951/Del/84. Edward Morgan Raine, "Vehicle immobilisation device". [Convention dates December 22, 1983, February 2, 1984, February 17, 1984, May 5, 1984 & November 22, 1984 (U.K.)]

952/Del/84. Sterling Drug Inc. "Industrial preservative and disinfectant compositions". (Convention date December 23, 1983) (U.K.).

953/Del/84. Krishan Kumar, "Process for preparing diaryl tellurium derivatives".

21st December, 1984

954/Del/84. Krishna Kant Puri, "Linearly slidable locks".

955/Del/84. Union Carbide Corporation, "Bismaleimides and prepregresins therefrom".

22nd December, 1984

956/Del/84. Uniroyal Inc., "Power transmission system and toothed belt therefor".

957/Del/84 Albright & Wilson Ltd., "Liquid detergent compositions". (Convention dates December 22, 1983, June 20, 1984 & August 28, 1984) (U.K.).

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE, BOMBAY BRANCH AT TODI ESTATES, IIIRD FLOOR, SUN MILL COMPOUND LOWER PAREL (WEST), BOMBAY 400013.

	3-12-1984	
334/Bom/84	Shri Padmanna J. Chaugule	Slab with precast building components.
335/Bom/84	Girdhari B. Radhakrishnani	Improved indentation Hardness Tester.
	4-12-1984	
336/Bom/84	Hindustan Lever Limited (6th December 1983 Gr. Britain)	Detergent Bleach Compositions.
337/Bom/84	Hindustan Lever Limited (6th December 1983, Gr. Britain)	Do.
338/Bom/84	M. D. Kabushiki Keisha	Short-Circuit Distance Relay.
339/Bom/84	P. K. Kocharekar	A Toy Binocular-Cum-Biewer.
	7-12-1984	
340/Bom/84	Mrs. Veena V. Kshirsagar	Transducer for measurement of liquid levels.
	10-12-1984	
341/Bom/84	Vijay Govind Gokhale	A fibreglass device for supporting burning type mosquito repellant coil or the like.

	11-12-1984	
342/Bom/84	Pritam Lal	Improvements in or relating a Method of shock protection and indication/cut off circuit on earth leakage current name as protective guide earthing wire process.
	12-12-1984	
343/Bom/84	Jaysynth Dyechem Pvt. Ltd.	A novel process for the preparation of novel green reactive dyes.
	13-12-1984	
344/Bom/84	K. R. Dholaria	A speedometer cum safety device for diesel engines.
	14-12-1984	
345/Bom/84	Hoechst India Limited	Pharmaceutically active labdane derivatives.
346/Bom/84	Do.	Forskolin.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

26th December, 1984

1032/Mas/84. S Sudarshan. A plastic body lead pencil.

1033/Mas/84. U. V. Nayak. An attachment device for attachment to a substantially vertical projection such as a pole or stem.

1034/Mas/84. Snia Fibre S.p.A. An apparatus for automatically discharging cops from spinning machines.

1035/Mas/84. Schwihag, Cesellschaft fur Eisenbahnoberbau mbH and Karl Richtberg GMBH & CO KG. A resilient rail fixing device for track installations.

1036/Mas/84. Sanden Corporation. A refrigerant compressor with mechanism for adjusting capacity of the compressor.

1037/Mas/84. Palitex Project-Company GmbH. An arrangement for varying the tractive force of a running thread.

27th December, 1984

1038/Mas/84. Dynamit Nobel Aktiengesellschaft. Process for the production of terephthalic acid dimethylester from P-xylene and methanol.

1039/Mas/84. Dynamit Nobel Aktiengesellschaft. Process for the production of terephthalic acid via terephthalic acid dimethyl ester formed from P-xylene and methanol.

1040/Mas/84. Liebert Corporation. Energy Efficient Air Conditioning System utilizing a variable speed compressor and, integrally-related expansion valves.

1041/Mas/84. Union Carbide Corporation. Method for replacing PCB-containing coolands in electrical induction apparatus with substantially PCB-free dielectric coolants.

1042/Mas/84. Adam Kovacs. Antitumour pharmaceutical compositions and process for preparing the same.

1043/Mas/84. Shell Internationale Research Maatschappij B.V. Catalyst activation.

1044/Mas/84. A. H. Robins Company, Incorporated. Process for the preparation of aroylamino-N-phenylpyridinamines. (Divisional to Patent Application No. 1436/Cal/82).

1045/Mas/84. A. H. Robins Company, Incorporated. Process for the preparation of amino-N-phenylpyridinamines. (Divisional to Patent Application No. 1436/Cal/82).

1046/Mas/84. A. H. Robins Company, Incorporated. Process for the preparation of Nitro-N-phenylpyridinamines. (Divisional to Patent Application No. 1436/Cal/82).

28th December, 1984

1047/Mas/84. P. Chidambaram & B. Lakshmi. High level flush tank.

1048/Mas/84. Union Carbide Corporation. Process for producing alcohols from carbon monoxide and hydrogen using an alkali-molybdenum sulfide catalyst.

1049/Mas/84. Union Carbide Corporation. Catalytic process for the production of alcohols from carbon monoxide, hydrogen and olefins.

1050/Mas/84. Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. An improved process for polymerizing vinyl chloride to prevent scale formation. (Divisional to Patent Application No. 130/Cal/82).

1051/Mas/84. J. T. Thorpe Company. Refractory fiber ladle preheater sealing rings.

1052/Mas/84. Vortran Corporation. Vortrex generating mass flowmeter.

1053/Mas/84. Naan Mechanical Works. Vortex dripper.

1054/Mas/84. Haldor Topse A/S. A process for the preparation of catalysts for use in ether synthesis.

29th December, 1984

1055/Mas/84. Pont-A-Mousson S.A. Feed apparatus for molten metal for an installation for the continuous vertical casting of a metal pipe, in particular from cast-iron.

1056/Mas/84. Nissin Kogyo Kabushiki Kaisha. Drum brake apparatus for vehicle.

1057/Mas/84. F. L. Smidtm & Co. Heat exchanger. (December 30, 1983; United Kingdom).

1058/Mas/84. A. Shajahan. An electrical energy meter.

ALTERATION OF DATE

155474.
(439/Cal/82) Ante dated to 8th January, 1976.

155476.
(1002/Cal/82) Ante dated to 31st May, 1978.

155478.
(1523/Cal/83) Ante dated to 15th September, 1980

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"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

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CLASS : 194-C_3. 155473

Int. Cl. : H01 1 15/02.

A HIGH EFFICIENCY, MULTIJUNCTION PHOTOVOLTAIC CELL.

Applicant : CHEVRON RESEARCH COMPANY, OF 525 MARKET STREET, SAN FRANCISCO, CALIFORNIA, UNITED STATES OF AMERICA.

Inventor : 1. LEWIS M. FRAAS.

Application No. 230/Cal/82 filed February 27, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

A high efficiency, multijunction photovoltaic solar cell for use with a light concentrating element comprising

(a) a single crystal, single element substrate without an internal solar energy sensitive junction, said substrate capable of latice matching to within $\pm$ 1% to a $Ga_{.88}In_{.12}As$ semiconductor material responsive in the solar spectral range,

(b) a first homogeneous layer of semiconductor material deposited on said substrate, latice matched thereto and having about $Ga_{.88}In_{.12}As$ composition with a semiconductor bandgap of 1.25 ev., and absorbing solar spectral energy at a first wavelength,

(c) a second homogeneous layer of semiconductor material deposited on said first layer latice matched to said first homogeneous layer and having about $Ga_{.69}In_{.31}As. P_{.5}$ composition with a semiconductor bandgap of 1.5 ev., and absorbing solar spectral energy at a second wavelength,

(d) a third homogeneous layer of semiconductor material deposited on said second layer latice matched to said second homogeneous layer and having about $In_{.5}Ga_{.5}P$ composition with a semiconductor bandgap of 1.85 ev., and absorbing solar spectral energy at a third wavelength,

(e) said first, second and third delayer each having essentially the same latice constant as said single crystal substrate to within $\pm$ 1%,

(f) said first, second and third layer each containing a solar energy sensitive p/n homojunction and each layer having a tunneling, shorting heterojunction with the layer immediately above and below it,

(g) said first, second and third layers each developing essentially the same zero voltage solar energy generated current as the other layers.

Compl. specn. 23 pages. Drgs. 3 sheets.

CLASS : 172-D_3. 155474

Int. Cl. : D01n 1/18.

BOBBIN HOLDER.

Applicant & Inventor : PRAVIN CHANDRA WADHWANA, INTERNATIONAL TRADING CO., 13, BRABOURNE ROAD, CALCUTTA-1, WEST BENGAL, INDIA.

Application No. 439/Cal/82 filed April 20, 1982.

Addition to No. left on 51/Cal/76 dated 8th January, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

Improvements in or modification of the bobbin holder of Patents Rules, 1972) Patent Office, Calcutta.

(a) the longated tubular body (1) is made as a single piece which has three sets of slots (4, 5, 6), one set (5) in the upper region of the body (1) being engageable by the ears (7, 8) of one of the legs (11, 12) when actuated by the movement of the cover or collar (15), said slots (5) being not diametrically opposite to each other;

(b) a pair of diametrically opposed slots (4) or guides for guiding the cover or collar (15);

(c) a third pair of slots (6) in the lower region of the tubular body (1) from which the shoulders (9, 10) project which hold the bobbing or through which the shoulders (9, 10) retract to allow the bobbin to be released.

Compl. specn. 16 pages. Drgs. 2 sheets.

CLASS : 163-B_3. 155475

Int. Cl. : F23 1 1/00.

A SOOT BLOWER HAVING A LANCE TUBE WHICH IS MOVABLE BOTH AXIALLY AND ANGULARY.

Applicant : THE BABCOCK & WILCOX COMPANY, 1010 COMMON STREET, NEW ORLEANS, LOUISIANA 70112, UNITED STATES OF AMERICA.

Inventors : 1. DEAN CURTIS ACKERMAN, 2. CHARLES WESLEY HAMMOND.

Application No. 495/Cal/82 filed May 3, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A soot blower having a lance tube 12 which is movable both axially and angularly simultaneously, a plurality of castering-type carrier or roller assemblies for journaling and positioning the lance tube with respect to a desired path of movement, each roller assembly comprising a roller support carrier 44, 45, means journaling the carrier for swinging movement about a catering axis 50, and a support roller 65 journaled in the support carrier 44, 45 on a roller axis displaced or offset laterally from the castering axis 50 and rollably engaging the lance tube.

Compl. specn. 9 pages. Drgs. 3 sheets.

CLASS : 40-B. & 32-E. 155476

Int. Cl. : B01 j 11/50; C08 f 1/00.

METHOD FOR POLYMERIZATION OR COPOLYMERIZATION OF MONOOLEFINS.

Applicant : SNAMPROGETTI S.p.A., OF CORSO VENEZIA 16, MILAN, ITALY AND ANIC S.p.A., OF VIA M. STABILE 216, PALERMO, ITALY.

Inventors : 1. MARGHERITA CORBELLINI, 2. MIRKO OSELLAME, 3. ALBERTO GRECO.

Application No. 1002/Cal/82 filed August 27, 1982.

Division of application No. 588/Cal/78 dated 31st May, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

A method for the polymerization or copolymerization of monoolefins as herein described which comprises contacting said monoolefin with a catalyst system composed of an aluminimum derivative of the formula $AlR_p X_{3-n}$ in which R is a hydrocarbonaceous radical, X is a halogen and p is a number from 1 to 3, in combination with a composition based on a titanium halide in which said titanium has a valency of three or greater and a halide of a metal, said metal selected from zirconium, molybdenum, zinc and calcium, said composition being prepared by reacting a titanium compound selected from titanium halides, titanium alcoholates, titanium amides and titanium chelates, with the vapors of one or more of said metals in the presence of a halogen donor as herein described the metal-to-titanium molar ratio being greater than 1 : n, being the valency of the metal with the greatest valency.

Compl. specn. 15 pages. Drg. Nil.

CLASS : 94-H. 155477

Int. Cl. : B28 d 3/00.

VERTICAL ROLLER MILL.

Applicant : F. L. SMIDTH & CO. A/S. OF 77 VIGERSLEV ALLE, DK-2500 VALBY COPENHAGEN, DENMARK.

Inventor : 1. KNUD TONI ANDERSON.

Application No. 1412/Cal/82 filed December 6, 1982.

Convention dated left on 25th January, 1982 (8202035) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A vertical roller mill with a grinding table which is rotatable about a vertical axis, and at least one grinding roller which is rotatable about a stationary, substantially horizontal axis and which is forced downwards against the grinding table, characterized in that the axis of the roller is inclined to that axial plane of the table which passes through the centre of the roller so that, as seen from above, the roller is canted with its leading side which faces the on coming material on the grinding path closer to the table axis than its trailing side.

Compl. specn. 6 pages. Drgs. 2 sheets.

CLASS : 62-D. 155478

Int. Cl. : D02 g 1/00.

THREAD TREATING NOZZLES.

Applicant : MASCHINENFABRIK RIETER A.G., OF WINTERTHUR, SWITZERLAND.

Inventors : 1. ARMIN WIRZ, 2. WERNER NABULON.

Application No. 1523/Cal/83 filed December 15, 1983.

Division of application No. 1050/Cal/80 dated 15th September, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A thread treating nozzle comprising a plurality of parts which define between them a thread treating passage and which are movable relative to each other to open and close said passage to enable insertion of a thread, at least one of said parts having a flexible mounting to permit adjustment of said part to make face to face sealing contact with another part or parts of the nozzle.

Compl. specn. 25 pages. Drgs. 3 sheets.

CLASS : 145-F; 136-I. 155479

Int. Cl. B29 j 5/00; C08 g 41/00.

IMPROVED POLYISOCYANATE FINDERS FOR PARTICLE BOARDS.

Applicant : THE UPJOHN COMPANY, OF 301 HENRIETTA STREETS, KALAMAZOO, MICHIGAN, UNITED STATES OF AMERICA.

Inventors : 1. ALESANDER McLAUGHLIN, 2. REINHARD HANS RICHTER, 3. HAROLD EUGENE REYMORE, JR.

Application No. 1058/Cal/80 filed September 17, 1980.

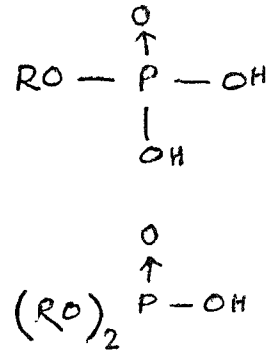
Addition to No. 816/Cal/79 dated 6th August, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

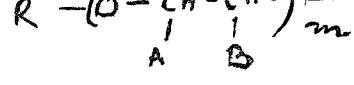
13 Claims

In a process for the preparation of particle board wherein particles of organic material capable of being compacted are contacted with a polyisocyanate composition and the treated particles are subsequently formed into boards by the application of heat and pressure, the improvement which comprises contacting said particles, in addition to the treatment with said polyisocyanate composition, with from 0.1 to 20 parts, per 100 parts by weight of said polyisocyanate, of a phosphate selected from the class consisting of

(a) acid phosphates of the formula (I) and (II) shown in the accompanying drawings,



and the ammonium, alkali metal, alkaline earth metal and amine salts thereof; (b) pyrophosphates represented by those derived from the acid phosphates of the formulae (I) and (II) shown in the drawings and mixtures of the latter; wherein each R is independently selected from the class consisting of alkyl from 3 to 7 carbon atoms, alkenyl from 3 to 7 carbon atoms, aryl, aryl substituted by at least one alkyl as herein defined and the radical of the formula (IIa) shown in the drawings,



wherein R' is selected from alkyl, aryl and aryl substituted by at least one alkyl, one of A and B represents hydrogen and the other is selected from hydrogen, methyl, chloromethyl and 2, 2, 2-trichloroethyl, and m is a number having an average value from 1 to 25; provided that :—

(i) R' does not represent alkyl having 8 or more carbon atoms when m has a value less than 6.

(ii) when one of the R's formula (II) is alkyl having at least 3 carbon atoms the other R can also be methyl or ethyl; and

(iii) in formula (II) the two RO groups taken together with the P atom to which they are attached can additionally form the residue of a heterocyclic nucleus having from 5 to 6 ring atoms, as herein defined.

Compl. specn. 23 pages. Drgs. 1 sheets.

CLASS : 90-K; 103; 144-E_2 & 144-E_6 155480

Int. Cl. : C09d 5/08.

PROCESS FOR MAKING A CORROSION INHIBITING PAINT COMPOSITION.

Applicant : INTERNATIONAL STANDARD ELECTRIC CORPORATION, OF 320 PARK AVENUE, NEW YORK 10022, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventors : 1. CRYIL FRANCIS DRAKE, 2. ALAN MARIES, 3. PAUL FRANCIS BATESON.

Application No. 1280/Cal/80 filed November 15, 1980.

Convention dated 15th November, 1979 (7939544) U.K.

Appropriate office for opposition proceedings (Rule 4. Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A process of making a corrosion inhibiting paint composition comprising providing a fine powder produced by :

fusing zinc oxide, phosphorus pentoxide and alumina or precursors thereof as herein described to form an homogeneous melt, the quantities of the oxides being such that upon fusing they form a glass, quenching the melt to form a solid glass, comminuting the solid glass to the fine powder, and dispersing the powder in a paint medium of the type herein described.

Compl. specn. 15 pages. 155481

CLASS : 40-B; 70-B. 155481

Int. Cl. B01 j 11/06; C23c 13/02.

CATALYTIC BODIES AND METHOD OF MAKING THE SAME.

Applicant : ENERGY CONVERSION DEVICES, INC., OF 1675 WEST MAPLE ROAD, TROY, MI 48084, U.S.A.

Inventors : 1. STANFORD R. OVSHINSKY, 2. KRISHNA SAPRU.

Application No. 485/Cal/81 filed May 8, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

31 Claims

A catalytic body including a composition having at least two vacuum deposited components, at least one of said components comprising a transition metal element, the relative amounts of said components being sufficient to maintain said catalytic composition in a substantially amorphous state, said composition having a local order non-equilibrium structural configuration, resulting in a number of at least one desired type of catalytically active site interspersed throughout the composition, characterized in that the substantially amorphous composition is obtained by directing the components as separate streams toward a surface which is at a relatively cool temperature, at individually variable rates, to assure the formation of said amorphous non-equilibrium structural configuration.

Compl. specn. 33 pages. Drgs. 1 sheet.

CLASS : 71-A & G; 131-B_3. 155482

Int. Cl. C06 c 1/00.

A CONNECTOR FOR HOLDING DONOR AND RECEIVER DETONATING CARDS.

Applicant : E. I. DU PONT DE NEMOURS AND COMPANY, AT WILMINGTON, DELAWARE, UNITED STATES OF AMERICA.

Inventor : MALAK ELIAS YUNAN.

Application No. 967/Cal/81 filed August 28, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A connector for holding donor and receiver detonating cords in propagating relationship to a detonator comprising :

(a) a central tubular portion whose bore is adapted to receive a detonator having a percussion-responsive input end and a base-charge output end;

(b) a cord-housing section at each end of said tubular portion and communication with the bore thereof, one such section being identifiable as a donor-cord-housing section adapted to house a substantially U-shaped segment of LEDC, and the other identifiable as a receiver-cord-housing section adapted to house a substantially U-shaped segment, or pair of juxtaposed substantially U-shaped segments of LEDC with the arms of each U lying in a plane which is parallel to, or substantially coincident with, a plane containing the longitudinal axis of said bore, and the apex of the U('s) positioned adjacent each end of said bore, said cord-housing section having a pair of matched oppositely disposed apertures on an axis which is substantially perpendicular to said planes, and being identifiable as donor-cord-housing and receiver-cord-housing section for identifying the input and output ends of the detonator which said bore is adapted to receive, the input end of said detonator being the end located adjacent said [illegible] section and the output end being the end [illegible] said receiver-cord-housing section; and

(c) two tapered pins, one mateable with each pair of apertures and adapted to extend through said apertures and between the arms of the U-shaped segment (s) of cord, and to hold the apex of the U('s) adjacent the end of the detonator.

Compl. specn. 29 pages. Drgs. 1 sheet.

CLASS : 32-B; 32-F_8(a); 32-F_8(b). 155483

Int. Cl. C07c 1/04, 27/06.

A PROCESS FOR PREPARATION OF OXYGEN-CONTAINING ORGANIC COMPOUNDS AND PARAFFINIC HYDROCARBONS.

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V., OF CAREL VAN BYLANDTLAAN 30, THE HAGUE, THE NETHERLANDS.

Inventors : 1. HANS RUDOLPH GERSMANN, 2. MARTIN FRANCISCUS MARIA POST, 3. LAMBERT SCHAPER, 4. SWAN TIONG SIE.

Application No. 1125/Cal/81 filed October 14, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A process for the preparation of oxygen-containing organic compounds and paraffinic hydrocarbons, characterized in that a mixture of carbon monoxide and hydrogen with an H_2/CO molar ratio of at least 0.5 is contacted in a first step with a catalytic activity for the conversion of an H_2/CO mixture into oxygen- containing orgdnic compounds preferably methanol and/or dimethyl ether and in that carbon monoxide and hydrogen present in the reaction product from the first step, are contacted in a second step with a monofunctional catalyst containing one or more metal components with catalytic activity for the conversion of an H_2/CO mixture into paraffinic hydrocarbons, which metal components have been chosen form the group formed by cobalt, nickel and ruthenium, on the understanding that if the feed for the second step has an H_2CO molar ratio lower than 1.5, water is added to this feed in an amount sufficient to bring, by reaction with CO, the H_2/CO molar ratio at a value of at least 1.5 and that in the second step use is made of a bifunctional catalyst combination which, in addition to the metal components with catalytic activity for the conversion of an H_2/CO mixture into paraffinic hydrocarbons, also contains one or more metal components with CO-shift activity.

Compl. specn. 35 pages. Drgs. Nil.

CLASS : 55-E_1. 155484

Int. Cl. : C12k 7/00.

PROCESS FOR INACTIVATING FOOT-AND-MOUTH DISEASE VIRUS.

Applicants : (1) JOSE LEONARDO LATORRE, (2) CLAUDIO DENOYA, (3) EDUARDO SCODELLER, (4) CESAR VASQUEZ, (5) MARIO LEBENDIKER, (6) MARIA SUSANA DUBRA, (7) OSCAR CRESPO, ALL OF SERRANO 661, BUENOS AIRES, ARGENTINA; (8) CONSEJO NACIONAL DE INVESTIGACIONES CIENTIFICASY TECHNICAS, (9) FUNDACION PARA LA EDUCATION, LA CIENCIA, Y LA CULTURA, OF MORENO 431, BUENOS AIRES, ARGENTINA.

Inventors : 1. JOSE LEONARDO LATORRE, 2. CALUDIO DENOYA, 3. EDUARDO SCODELLER, 4. CESAR VASQUEZ, 5. MARIO LEBENDIKER, 6. MARIA SUSANA DUBRA, 7. OSCAR CRESPO.

Application No. 1322/Cal/81 filed November 25, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

Process for inactivating foot-and-mouth disease virus for use in the preparation of foot-and-mouth disease cha-vaccine characterised in that it comprises incubating said virus in the presence of soluble salts selected from among ammonium salts and Group IA salts and recovering the completely inactivated and stable viruses.

Compl. specn. 16 pages. Drgs. 7 sheets.

CLASS : 32-B. 155485

Int. Cl. : C07 c 1/24.

A PROCESS FOR THE PRODUCTION OF HIGH PURITY ETHENE.

Applicant : PETROLEO BRASILEIRO S.A. PETROBRAS, AT AVENIDA CHILE, NO 65, RIO DE JANEIRO, BRAZIL.

Inventors : 1. HELCIO VALLADARES BARROCAS, 2. FERNANDO BARATELLI JUNIOR.

Application No. 153/Cal/82 filed February 9, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A process for the production of high purity ethene from ethyl alcohol in a plurality of adiabatic reactors containing a fixed bed catalyst characterised in that the process comprises :

(i) introducing ethyl alcohol and steam at a temperature of from 400°C to 520°C and at a pressure adiabatic reactors, thereby dehydrating a portion of said ethyl alcohol;

(ii) withdrawing at a pressure of not less than 18 atm. from the last of the adiabatic reactors a hot reaction product containing ethene, water and unreacted alcohol;

(iii) separating in a conventional manner from said reaction product ethene and water formed during the reaction;

(iv) washing with a natural liquid phase like water the ethene obtained from step (iii) to separate trace amounts of unreacted ethyl alcohol;

(v) heating at least a portion of the wash water from step (iv) and the water formed in the reaction by heat exchanging such water with the hot reaction products from the last adiabatic reactor to form stem;

(vi) directly contacting the steam formed in step (v) and ethyl alcohol to form the feed to the first adiabatic reactor;

(vii) cooling the washed ethene from step (iv) above and pushing and passing said cooled ethene to a high pressure cryogenic distillation stage to obtain a high purity ethene, said high pressure required for the cryogenic distillation stage being achieved by the compression of the feed to the dehydration process.

Compl specn 17 pages. Drgs. 2 sheets.

CLASS : 1-A. 155486

Int Cl. : C09 j 3/00.

A PRESSURE-SENSITIVE ADHESIVE COMPOSITION.

Applicant : JOHNSON & JOHNSON PRODUCTS, INC., OF 501 GEORGE STREET, NEW BRUNSWICK, NEW JERSEY, UNITED STATES OF AMERICA.

Inventors : 1 DONALD FRANCIS DOEHNERT, 2. ARTHUR SAMVEL HILL.

Application No 167/Cal/82 filed February 12, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A pressure-sensitive adhesive composition having the capacity to absorb from 15 to 40% of its own weight in water and having a Williams plasticity measurement of from 2 mm to 4 mm comprising :

(a) from 30 to 80 parts by weight of a pressure-sensitive adhesive component selected from the group consisting of natural rubber, silicone rubber, acrylonitrile rubber, polyurethane rubber, polyisobutylene and acrylic polymers;

(b) from 30 to 80 parts by weight of a moisture absorbing component selected from the group consisting of karaya gum, locust beam gum, sodium acrylates, polyvinylalcohol, powdered pectin, gelatin, carboxymethylcellulose, high molecular weight carbowax, and carboxypoly-methylene;

(c) from 2% to 20% by weight based on the total weight of said adhesive composition of silicia; and optionally

(d) polybutene in conjunction with polyisobutylene, wherein the amount of polybutene is 13 to 18 percent of the amount of polyisobutylene present in the elastomer.

Compl. specn. 14 pages. Drgs. Nil.

CLASS : 1-A. 155487

Int. Cl. : C09 j 3/00.

PRESSURE-SENSITIVE ADHESIVE COMPOSITIONS HAVING HIGH SHEAR AND LOW PEEL RESISTANCE.

Applicant : JOHNSON & JOHNSON PRODUCTS, INC., OF 501 GEORGE STREET, NEW BRUNSWICK, NEW JERSEY, 08903, UNITED STATES OF AMERICA.

Inventor : IVAN JEROME BALINTH.

Application No. 168/Cal/82 filed February 12, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

A pressure-sensitive adhesive composition comprising (1) from 25% to 42% by weight of the total composition of an elastomeric blend consisting of a rubber and an olefin terpolymer of ethylene, propylene and 1, 4-hexadiene, wherein the weight ratio of ethylene monomer to propylene monomer is approximately 3 : 1 and said hexadiene is present in an amount of from 1% to 8% by weight, having a modulus, M_{400}, at 60% elongation of from 1 to 1.5 meganascals and a polydisparity of up to about 10, the weight ratio of said natural rubber to said terpolyme, in said blend being from 7.5 : 1 to 2 : 1; (2) from 5% to 15% by weight of the total composition of a liquid plasticizer component selected from the group consisting of isomeric liquid polybutenes, mineral oils, low molecular weight polyterpenes, low viscosity rosins and mixtures thereof with the proviso that when mineral oil is utilized, it comprises no more than 50% of the liquid plasticizer component; (3) from 12% to 20% by weight of the total composition of a reinforcing filler; and (4) from 30% to 50% by weight of the total composition of a solid tackifier component having a softening point of between 90° and 125°C, selected from the group consisting of normally solid polyterpenes, solid rosins and mixtures thereof, said pressure-sensitive adhesive composition having a Williams plasticity of from 2 mm to 3 mm.

Compl. specn. 15 pages. Drgs Nil.

CLASS : 133-A. 155488

Int Cl. : G11 b 5/56.

DEVICE FOR POSITIONING OBJECTS WHICH HAVE A LOW MASS.

Applicant : BASF AKTIENGESELLSCHAFT, AT 6700 LUDWIGSHAFEN; FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. KLAUS MANZKE, 2. ERNST-JUERGEN GRITTMANN, 3. VOLKER KOCH.

Application No. 817/Cal/82 filed July 16, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

A device for positioning objects which have a low mass, especially for positioning magnetic heads over preselected magnetic tracks on at least one magnetic disk, which can be coupled to a drive, in a memory processing unit, in a frictionless manner, which comprises a carriage, which is capable of being moved toward and away from the axis of rotation of the magnetic disk, carries at least one magnetic head, this carriage being mounted between guide elements that it can be displaced by a drive motor longitudinally with respect to the chassis of the unit, wherein the guide elements engage the longitudinal edges of the carriage and at least one pair of the said elements is gimbal-mounted on the chassis of the memory processing unit.

Compl. specn. 15 pages. Drgs. 4 sheets.

CLASS : 32B+32C+32F_3C. 155489

Int. Cl. : C07C-9/00+31/00.

METHOD FOR THE COPRODUCTION OF HYDRO CARBONS AND ALCOHOLS.

Applicants UNIVERSITY OF SOUTH CAROLINA, COLUMBIA, SOUTH CAROLINA, U.S.A.

Inventor : MEHMET NAFIZ OZYAGCILAR.

Application No. 172/Bom/81 filed June 16, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

11 Claims

A method of coproducing hydrocarbons and alcohols which comprises contacting carbon monoxide and hydrogen, in synthesis proportions and conditions as hereinbefore described, over a two phase catalyst consisting essentially of an intermetallic compound which may have been activated, characterized in that

the first phase is selected from the group consisting of :

(1) a single phase binary alloy selected from the group consisting of TiCo, TiCr, TiCu and TiMn or the binary Laves phase compounds $TiCr_2$, $ZrNi_2$, $ZrMo_2$, $ZrFe_2$, $ZrCo_2$ $ZrMn_2$, $TiCo_2$, $ZrCu_2$ and $ZrCr_2$ or

(2) single phase ternary or quaternary alloy selected from the group consisting of :

(a) a single phase alloy $TiFe_xM_yN_z$ where M and N are any metal but Ni or Ru, and where x, y and z are each numbers less than 1.0 or any, but not more than one, may be 0, and x and y and z is approximately 1.0;

(b) a single phase alloy $TiA_xD_yE_z$ where A is Co, Cr, Mn or Cu, D and E are any metal and where x, y and z are each numbers less than 1.0 or any, but not more than one, may be 0, and x and yand z is approximately 1.0; and

(c) ternary or higher Leaves phase compounds based on Ti and/or Br, consisting of :

(i) a single phase alloy $TiB_xF_yG_z$ where B is Cr or Co, F and G are any metals and where x, y and z are each numbers less than 2.0 or any, but not more than one, may be 0, and x and y and z is approximately 2.0 and

(ii) a single phase alloy $ZrC_xQ_yR_z$ where is Ni Mo, Fe, Co, Mn, Cr or Cu, Q and R are any metals and where x, y and Z are each numbers less than 2.0 or any, but not more than one, may be 0 and x and y and z is approximately 2.0;

and the second phase is selected from free titanium hydride or zirconium hydride.

Compl. specn. 22 pages. Drgs. Nil.

CLASS : 97c 155490

Int. Cl. : F 24 h, 1/00

APPARATUS FOR IMMEDIATE SUPPLY OF HOT WATER.

Applicant : SUDHIR MALHOTRA, OF 74, SNEH SADAN, OPP. COLABA POST OFFICE, BOMBAY-400 005, MAHARASHTRA, INDIA.

Application No. 304/Bom/1981 filed on October 30, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Bombay Branch.

3 Claims

An apparatus for continuous and immediate supply of hot water comprising an inner vessel for containing water which is housed inside a larger outer vessel and the space inbetween the outer vessel and inner vessel is packed with heat insulating material, the said inner vessel is provided with a outlet tube near its bottom which projects out with the outer vessel and fitted with a tap; and immersion heater mounted inside the inner vessel at its bottom which is electrically operated through a thermostat switch, a thermostat which is fitted inside the inner vessel by its side, the inner vessel being covered at the top by means for a lid which has an opening at the centre and on this lid is fitted a bottle support to hold the neck of an inverted glass bottle made of heat proof glass, the said glass bottle holding additional quantity of water as a temporary supply during use, the glass bottle being provided with a tube in its air tight lid which dips into the water of the inner vessel.

Compl. specn. 6 pages. Drg. 1 sheet.

CLASS : 32-B 155491

Int. Cl. : C07d 41/06.

PROCESS FOR THE PREPARATION OF W-LACTAMS CONTAINING FROM 5 TO 14 CARBON ATOMS.

Applicant : SNIA VISCOSA SOCIETA' NAZIONALE INDUSTRIA APPLICAZIONI VISCOSA S.p.A., VIA MONTEBELLO 18, MILANO, ITALY.

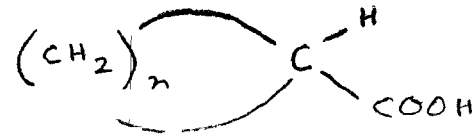
Inventors : 1. PIER PAOLO ROSSI, 2. MARIO CATONI.

Application No. 1157/Cal/80 filed October 13, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

Process for the preparation of a W-lactam containing from 5 to 14 carbon atoms, by reaction of a cycloaliphatic acid of the general formula I as shown in the accompanying drawing



wherein n=3-13 on the corresponding anhydrides, with a nitrosating agent such as nitrosyl acid sulphate in the presence of a dehydrating agent characterized in that the lactamization reaction is carried out as herein described at a temperature between 30 and 100°C which is maintained constant throughout the reaction stages as herein described and at a dehydrating agent/nitrosating agent molar ratio comprised between 0.7 and 1.

Compl. specn. 14 pages. Drg. 1 sheet.

CLASS : 102-D 155492

Int. Cl : F 15 c 3/00.

PRESSURE RESPONSIVE SWITCH ACTUATING MECHANISM.

Applicant : ALAN COBHAM ENGINEERING LIMITED, OF PAINTERS HALL, 9 LITTLE TRINITY LANE, LONDON FC 4 V 2 AE, ENGLAND.

Inventor : CHRISTOPHER JOHN COFFIN.

Application No. 309/Cal/81 filed March 21, 1981.

Convention dated 21st March, 1980 (8009626) U.K.
27th January 1981 (8102443) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

A pressure responsive switch actuating mechahnism including a movable actuating element which is movable between an inoperative location and an operative location to actuate the switch, and a pressure responsive system including a movable stop against which the movable actuating element is normally urged, the pressure responsive system being operable to control movement of said movable actuating element by controlling location of the movable stop in

accordance with a working pressure to which it is adapted to respond, there being a time delay mechanism which operates to delay movement of said movable actuating element following movement of said movable stop in response to certain pressure responsive system is set in one condition in which it locates said movable stop in one location when the working fluid pressure is within a range bounded by ambient pressure at a predetermined switching pressure even when the working fluid pressure is changing and is convertible to another condition with a snap action to move said movable stop to another location when the working fluid pressure reaches said predetermined switching pressure whereby said movable actuating element is released for delayed movement into abutment with said movable stop at said other location to actuate said switch.

Compl. specn. 26 pages. Drg. 2 sheet.

CLASS : 40-F 155493

Int. Cl. : E 21 b 43/25.

METHOD OF TREATING WELLS WITH SELF-PRECIPITATING SCALE INHIBITOR.

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V. OF CAREL VAN BYLANDTLAAN 30, THE HAGUE, THE NETHERLANDS.

Inventors : 1. DAVID CLARK BERKSHIRE. 2. JIMMIE BROWN LAWSON, 3. EDWIN ALLEN RICHARDSON.

Application No. 437/Cal/81 filed April 24, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A process for converting an oil well into a well of improved oil productivity by the inhibition of the formation of scales comprising :

Compounding an aqueous solution of at least one compound containing known scale-inhibiting anions, at least one compound containing known multivalent cations, an alkaline material to provide an initial solution pH of from 6.5 to 9, the initial solution pH being so adjusted as to ensure that it exceeds the pH at which a compound composed of said scale-inhibiting anions and multivalent cations will begin to precipitate, and of from 0 2 to 4.7 mol/1 of at least one known compound which reacts to yield hydrogen ions at a relatively slow rate to subsequently reduce the solution pH to a level at which said precipitation will begin; and

injecting 15900-17490 1 of the aqueous solution at a rate of 318-477 1/min into a reservoir so that (a) substantially all of the solution enters the reservoir before the occurrence of any significant amount of said precipitation occurs while the solution is in a near-well location within the reservoir.

Compl. specn. 22 pages. Drg. 3 sheets.

CLASS : 32-A_1 155494

Int. Cl. : C 09 b 29/06, 29/36.

PROCESS FOR THE MANUFACTURE OF WATER-SOLUBLE AZO COMPOUND.

Applicant : HOECHST AKTIENGESELLSCHAFT OF D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

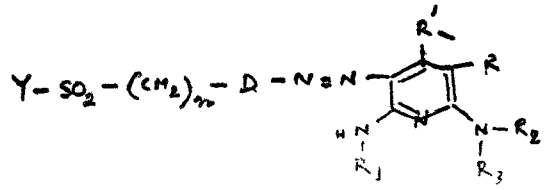
Inventors : 1. PETER MISCHKE, 2. HERMANN FUCHS, 3. ERWIN FLECKEN-STEIN.

Application No. 724/Cal/81 filed July 2, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

A process for the manufacture of a water-soluble azo compound which has the general formula (1) of the accompanying drawings in which :



Formula (1)

Y is the vinyl group or a group of the formula $-CH_2-CH_2-Z$ in which Z denotes an inorganic or organic radical which can be eliminated under alkaline conditions, or denotes a hydroxy groups;

n represents the number zero, 1 or 2;

D is the phenylene or naphthylene radical which can be substituted by 1 or 2 substituents belonging to the group comprising alky of 1 to 4 C-atoms, alkoxy of 1 to 4 C-atoms; hydroxy, alkanoylamino having an alkyl radical of 1 to 4 C-atoms, benzoylamino, benzoylamino which is substituted by [alkyl of 1 to 4 C-atoms, alkoxy of 1 to 4 C-atoms, chlorine and/or sulfo] chlorine, bromine, fluorine and carboxy, and/or by a nitro group and/or by a sulfo group, or

D is the divalent phenylazophenyl, phenylazonaphthyl, naphthylazophenyl or naphthylazonaphthyl radical in which each phenyl and naphthyl radical can be substituted by 1 or 2 substituents belonging to the group comprising alkyl of 1 to 4 C-atoms, alkoxy of 1 to 4 C-atoms, hydroxy, chlorine, bromine and fluorine, and/or by an alkanoylamino group having an alkyl radical of 1 to 4 C-atoms, a sulfo or carboxy group, or

D is the benztliazol-2-yl radical which can be further substituted in the benzene nucleus by a substituent belonging to the group comprising alkyl of 1 to 4 C-atoms, alkoxy of 1 to 4 C-atoms, hydroxy, alkanoylamino having an alkyl radical of 1 to 4 C-atoms, benzoylamino, benzoylamino which is substituted by alkyl of 1 to 4 C-atoms, alkoxy of 1 to 4 C-atoms, chlorine and/or sulfo nitor, chlorine, bromine, fluorine and sulfo;

R is a hydrogen atom, but is preferably a cyano, a carbalkoxy group having an alkyl radical of 1 to 4 C-atoms, a carbophenoxy or a carbamoyl group or a carbamoyl group which is monosubstituted or disubstituted by alkyl of 1 to 4 C-atoms and/or phenyl, at is an alkylsulfonyl group of 1 to 4 C-atoms or an arylsulfonyl group;

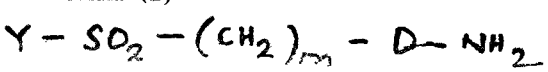
R^1 is a hydrogen atom or an alkenyl group of 2 to 4 C-atoms or an optionally substituted alkyl group of 1 to 4 C-atoms or a cycloalkyl group or an aryl radical;

R_1 is a hydrogen atom, a sulfonic acid group or an alkenyl group of 2 to 4 C-atoms, an optionally substituted alkyl group of 1 to 4 C-atoms, J a cycoalkyl group, an aryl radical or a saturated, unsaturated or aromatic heterocyclic radical;

R_2 is a hydrogen atom, a alkenyl group of 2 to 4 C-atoms, or an optionally substituted group of 1 to 4 C-atoms;

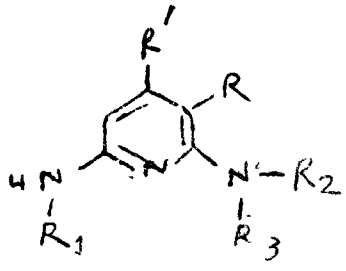
R_3 is a hydrogen atoms, a sulfonic acid group or an alkenyl group of 2 to 4 C-atoms, an optionally substituted alkyl group of 1 to 4 C-atoms, a cycloalkyl group, an aryl radical or a saturated, unsaturated or aromatic heterocyclic radical, or R_2 and R_3, together with the nitrogen atom form a heterocyclic, saturated or unsaturated ring which optionally contains a further hetero atom, and the formula members R_1 R_2 and R_3 having meanings which are identical with or different from one another,

and with the proviso that the compounds of formula (1) contain in addition to the detachable group Z which can be a water-solubilizing group, imperatively at least one sulfonic acid, phosphoric acid phosphato or sulfato group or two carboxy group which process comprises diazotizing a compound of the general formula (2)



Formula (2)

in which D, n and Y have the above-mentioned meanings, and coupling the diazo compound with a coupling component of the general formula (3)



(Formula (3)

in which R, R' R_1, R_2 and R_3 have the above-mentioned meanings, both the reactants in this diazotization and coupling reaction being selected in such a way that at least one of them contains at least one of the above-mentioned group which impart solubility in water, in addition to the fiber-reactive group Y.

Compl. specn. 52 pages. Drg. 2 sheets.

CLASS : 32-F_2(b); 55-E_4; 60-X_3d 155495

Int. Cl. : C 07 d 27/04.

A METHOD OF SYNTHESSING N-(1-ALLYL-2-PYRROLIDINYL-METHYL) 2-METHOXY 4-AMINO 5-METHYLSULFAMOYL BENZAMIDE, AND DERIVATIVES THEREOF.

Applicant : SOCIETE D' ETUDES SCIENTIFIQUES ET INDUSTRIELLES DE L' ILE-DE-FRANCE, OF 46, BOULEVARD DE LATOUR-MAUBOURG, 75340 PAIRS CEDEX 07, FRANCE.

Inventors : 1. JACQUES PERROT, 2. MICHEL THOMINET.

Application No. 783/Cal/81 filed July 13, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A method of synthesising a new product N-(1-allyl-2-pyrrolidinyl-methyl) 2-methoxy-4-amino-5-methylsulfamoyl benzamide, quaternary ammonium salts thereof, N-oxides thereof, optical isomers thereof and their pharmacologically method comprises reacting ethyl chloroformate with 2-methoxy-4-amino-5-methylsulfamoyl benzoic acid in the presence of triethylamine, then reacting N-allyl-2-aminomethyl-pyrrolidine with the mixed anhydide thus obtained.

Compl. specn. 18 pages. Drg. 3 sheets

CLASS : 40-F 155496

Int. Cl. : B 01 j 1/00.

A PROCESS FOR MAKING INTERNALLY COATED REACTION VESSEI FOR USE IN SUSPENSION POLYMERIZATION OF VINYL MONOMERS.

Applicant : THE B. F. GOODRICH COMPANY, OF NEW YORK 277 PARK AVENUE, NEW YORK, NEW YORK-10017, UNITED STATES OF AMERICA.

Inventor : LOUIS COHEN.

Application No. 821/Cal/82 filed July 16, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims

A process for making internally coated reaction vessel for use in suspension polymerization of vinyl monomers which comprises applying to said surfaces a coating solution comprises of an organic solvent as hereinbefore described, having dissolved therein an acidic coating material whose concentration in the coating solution is in the range of 1% to 10% by weight, the said coating material being selected from the group consisting of (1) the self condensation product of a polyhydric phenol, (2) the condensation product of two or more polyhydric phenols, (3) the self condensation product of a polyhydric naphthol, (4) the condensation product of any one of (1), (2), and (3) reacted with a chlorine containing bleach, (5) the reaction products of an alkyl or halogen substituted phenol, a condensing agent, and a polyhydric phenol, and (6) the reaction product a thiodiphenol, or derivative thereof, with a chlorine containing bleaching agent, drying said coating solution on said surfaces to produce a coating thereon having a thickness in the range of from 0.1 micron to 10 microns, and polymerizing one or more ethylenically unsaturated monomers while in contact with said coating.

Compl. specn. 16 pages. Drg. Nil.

CLASS : 130-I 155497

Int. Cl. : C 22 b 15/00, 17/00, 19/00.

A HYDROMETALLURGICAL PROCESS FOR THE TREATMENT OF A RAW MATERIAL WHICH CONTAINS OXIDE AND FERRITE OF ZINC, COPPER AND CADMIUM.

Applicant : OUTOKUMPU OY, OF SF-83500 OUTOKUMPU, FINLAND.

Inventors : 1. JUSSI KALEVI RASTAS, 2. JENS RAFAEL NYBERG, 3. KAUKO JOHANNES KARPALE, 4. LARS-GORAN BJORKQVIST.

Application No. 1058/Cal/81 filed September 23, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A hydrometallurgical process for the treatment of a raw material which contains oxide and ferrite of zinc, copper and/or cadmium to obtain the corresponding metal wherein the raw material is neutral leached by means of a sulfuric-acid-bearing solution in order to leach the oxide without substantial dissolving of ferrite, the ferrite-bearing residue is separated, and a sulfuric-acid-bearing and/or ferri-sulfate-bearing solution is mixed with the residue in order to leach the ferrite and to precipitate the iron in the form of jarosite in the presence of alkali or ammonium ions under atmospheric conditions at 80-105°C, and the solid phase is separated from the solution, characterized in that so much sulfuric-acid-bearing and/or ferrisulfate-bearing solution is added to the ferrite bearing residue that approximately 50–60% of the ferrite dissolves and its iron is precipitated as jarosite, and that the slurry of the solid phase is treated at an oxygen pressure of 1-2 bar in order to maintain the iron in the trivalent form and at a temperature of 220–250°C that the zinc, copper and/or cadmium of the solid phase is converted to its sulfate and the iron to hematite in accordance with the following reaction :

(5) $3MeFe_2O_4(s) + 2A[Fe_3(SO_4)_2(OH)_6] (s) \rightarrow 3MeSO_4(aq) + A_2SO_4(aq) + 6Fe_2O_3(s) + 6H_2O(aq)$

(wherein A = K, Na or NH_4 and Me = Zn, Cu or Cd)

Compl. specn. 33 pages. Drg. 1 sheet.

CLASS : 130-I 155498

Int. Cl. : C 22 b 11/00, 13/00, 19/00.

A HYDROMETALLURGICAL PROCESS FOR THE RECOVERY OF LEAD, SILVER, GOLD AND ZINC FROM IMPURE JAROSITE RESIDUES OF AN ELECTROLYTIC ZINC PROCESS.

Applicant : OUTOKUMPU OY, OF SF-83500 OUTOKUMPU, FINLAND.

Inventors: 1. JUSSI KALEVI RASTAS, 2 JENS RAFAEL NYBERG.

Application No. 1059/Cal/81 filed September 23, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A hydrometallurgical process for the recovery of lead, silver, gold and zinc from the impure jarosite residue of an electrolytic zinc process, characterized in that the jarosite residue is leached in a sulfuric-acid-bearing solution, having a final concentration of 120–170 g H_2SO_4/l and 30–60 g

Fe/l and a temperature of 60–95°C in order to produce a leach residue which contains lead, silver and gold and a ferrisulfate-bearing solution and to separate them from each other, whereafter the leach residue is sulfidized and froth-flotated in order to recover a combined concentrate which contains lead, silver and gold, and the ferrisulfate-bearing solution is fed to a ferritic treatment stage, in which ferrisulfate and ferrites react in the presence of ions of alkali and ammonium at 80–150°C and form pure jarosite and zinc sulfate.

Compl. specn. 16 pages. Drg. 3 sheets.

CLASS : 139-A 155499

Int. Cl. : C 09 c 1/48.

PROCESS FOR PRODUCING CONDUCTIVE CARBON BLACK.

Applicants & Inventors . (1) VALERIAN NIKOLAEVICH ANIKEEV, OF OMSK, 3 MOLODEZHNAYS ULITSA, 56, KV. 29, USSR : (2) VITALY FEDOROVICH SUROVIKIN, OF OMSK, ULITS LERMONTOVA, 20, KV. 80, USSR; (3) ANATOLY NIKONOVICH BUDIN, OF OMSK, KOSMICHESKYPROSPEKT, 55, KV. 23, USSR; (4) GENNADY VASILLEVICH SAZHIN, OF OMSK, ULITA 50 LET KOMSOMOLA, 8, KV. 33, USSR.

Application No. 1063/Cal/81 filed September 24, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A process for producing the conductive carbon black wherein its primary aggregates have an open form, an average aggregate diameter D_n is within 1500 and 2000A° a density of an aggregate is within 0.14 and 0.25 g/cm³, particles are spread uniformly in each aggregate, an average number n of particles per aggregate is within 100 and 200, a particle diameter d is within 200 and 25A°, carbon black roughness coefficient K is within 1.5 and 2.5, maximum ash content of the carbon black is 0.5 mass per cent, which comprises pyrolysis of hydrocarbon stock in a pyrolysis zone established by three streams coaxial with respect to the original stock, viz., a first stream of the oxygen-containing gas feed at a velocity of from 30 to 50 m/s and embracing the stream of the original stock, a second stream of the oxygen-containing gas fed at a velocity of from 10 to 30 m/s, and the peripheral stream of fuel combustion products flowing at a velocity of from 5 to 10 m/s; thermal decomposition of the pyrolyzates with fuel combustion products; quenching of the resultant carbon black; recovery of the desired carbon black from the gaseous products.

Compl. specn. 17 pages. Drg. 1 sheet.

CLASS : 32-E 155500

Int. Cl. : C 08 f 1/98.

AN APPARATUS FOR EXTRUDING LOW DENSITY LINEAR POLYOLEFIN MATERIALS HAVING HIGH VISCOSITIES.

Applicant : UNION CARBIDE CORPORATION, AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK 10017, UNITED STATES OF AMERICA.

Inventors : 1. THEODORE ROBERT BALKESLEE, III 2. STUART JACOB KURTZ, 3. LEONARD SEBASTIAN SCAROLA, 4. JOHN CLARK MILLER, 5. JAMES DAVID ENGLE, 6. JEROME THOMAS HORNER.

Application No. 1165/Cal/81 filed October 21, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

Apparatus for extruding low-density, linear polyolefin materials having high viscosities, wherein such materials are continuously fed to and through a rotary extruder including an extruder housing defining a cylindrical interior and containing an extruder screw having helical screw flights having feeding transition and metering sections, characterized by employing, in said extruder screw in cooperation with the cylindrical interior of said extruder housing, "opened' leading edges, as herein defined, for said screw flights of said sections coated with "gall-resistant" material, as herein defined.

Compl. specn. 24 pages. Drg. 3 sheets.

CLASS : 88-B & F 155501

Int. Cl. : B 01 d 53/00; C 10 k 1/00.

REMOVAL OF HYDROGEN SULPHIDE AND CARBONYL SULPHIDE FROM GASEOUS MIXTURES.

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V. OF CAREL VAN BYLANDTLAAN 30, THE HAGUE, THE NETHERLANDS.

Inventors : 1. CHARLES ARTHUS LIEDER, 2. CARL HOSEA DEAL, JR.

Application No. 1225/Cal/81 filed November 3, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims .

A process for the removal of H_2S and COS from an H_2S- and COS-containing gaseous mixture, which process comprises :

(a) contacting the gaseous mixture with an aqueous solution containing a reactant oxidizing most of the H_2S to sulphur and which is a polyvalent metal ion and/or a polyvalent metal chelate compound and separating a COS-containing gaseous mixture from a sulphur- and reduced reactant-containing aqueous mixture;

(b) contacting the COS-containing gaseous mixture separated in step (a) in the presence of water with a catalyst causing hydrolysis of COS and separating a CO_2- and H_2S- containing gaseous mixture from the catalyst;

(c) and removing most of the H_2S from the gaseous mixture separated in step (b).

Compl. specn. 24 pages. Drg. 3 sheets.

CLASS : 195-D 155502

Int. Cl. : B 67 c 3/00.

METERING DEVICE.

Applicant : HOECHST AKTIENGESELLSCHAFT, D-6230 FRANKFURT/MAIN 80 FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. HANS-WERNER STEPHAN, 2. HERMANN KLEIN, 3. KLAUS LEHR.

Application No. 379/Cal/82 filed April 3, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A device for metering liquid yellow phosphorous into a rotating ball mill for the production of red phosphorous therein, comprising :

a stationary outer tubular structure (1) surrounding an inner tubular structure (3) rotatably mounted therein;

a valve (14) having a valve rod (16) associated with it being installed with in the inner tubular structure (3) near its end close to the ball mill;

a plug (15) provided with a central bore receiving the valve rod (16) being installed within the inner tubular structure (3) near its end remote from the ball mill; and

a bellows (17) surrounding a portion of the valve rod (16) inside the inner tubular structure (3), the bellows (17) being tightly connected to the plug (15) and valve rod (16).

Compl. specn. 8 pages. Drgs. 1 sheet.

CLASS : 55-D_2; 60-X_1 155503

Int. Cl. : A 01 n 9/02, 9/12, 9/20, 9/28.

A PROCESS FOR PREPARING A HERBICIDAL COMPOSITION.

Applicant : STAUFFER CHEMICAL COMPANY, WESTPORT, CONNECTICUT, 06881, U. S. A.

Inventor : FRANCIS HARRY WALKER.

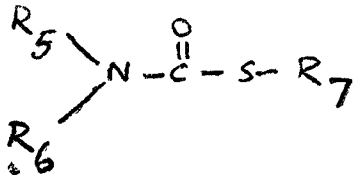
Application No. 675/Cal/82 filed June 16, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A process for preparing a herbicidal composition comprising admixing :

(a) an herbicidally effective amount of a thiocarbamate compound of the formula 1 of the accompanying drawings,



Formula 1

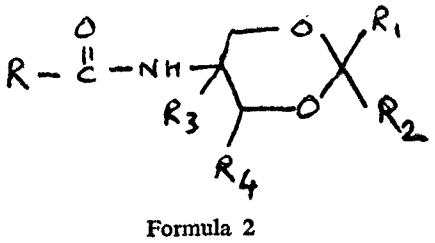
in which R_5 is alkyl having 1–6 carbon atoms, inclusive;

R_6 is selected from the group consisting of alkyl having 1–6 carbon atoms, inclusive; and cyclohezyl; or

R_5 and R_6 form indistinguishable parts of a single alkylene ring having 4–10 carbon atoms, inclusive; and

R_7 is selected from the group consisting of alkyl having 1–6 carbon atoms, inclusive; haloalkyl wherein halo is selected from the group consisting of chlorine, bromine and iodine and alkyl has 1–6 carbon atoms, inclusive; alkenyl having 2–6 carbon atoms, inclusive; halo alkenyl wherein halo is selected from the group consisting of chlorine, bromine and iodine and alkenyl has 2–6 carbon atoms, inclusive; benzyl; and halo substituted benzyl, wherein halo is selected from the group consisting of chlorine, bromine and iodine; and

(b) a non-phytotoxic antidotally effective amount of a compound of the formula 2



Formula 2

of the drawings, which is present either alone or with an inert diluent, carrier or agent and in which R is haloalkyl wherein halo is chlorine, bromine or iodine and the alkyl group has 1-4 carbon atoms, inclusive;

R_1 is selected from the group consisting of hydrogen; lower alkyl having 1–4 carbon atoms, inclusive; alkenyl having 2–4 carbon atoms, inclusive; and phenyl;

R_2 is selected from the group consisting of hydrogen and lower alkyl having 1–4 carbon atoms, inclusive;

R_3 is selected from the group consisting of hydrogen and lower alkyl having 1–4 carbon atoms, inclusive; R_4 is selected from the group consisting of hydrogen and a nitro phenyl group; and

either R_3 is hydrogen or R_4 is hydrogen.

Compl. specn. 44 pages. Drg. 1 sheet.

CLASS : 47-B 155504

Int. Cl. : B 01 j 7/02.

ACETYLENE GAS REACTOR PARTICULARLY FOR FUELING A MOTOR VEHICLE ENGINE.

Applicant & Inventor : WOLFGANG PRIESEMUTH, OF POSTKAMP 13, D-2210 ITZEHOE-NORDOE, WEST GERMANY.

Application No. 141/Cal/82 filed February 5, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

Acetylene has reactor, particularly for fueling a motor vehicle engine, comprising a calcium carbide supply receptacle, a reaction container with a water inlet device and a collecting receptacle for the resulting calcium hydroxide sludge or calcium dust, characterised in that there is arranged, in the vertical direction, under the carbide receptacle, a pipe-shaped sievelike duct that is surrounded by the reaction container. is encircled by an annular spray nozzle arrangement for conducting thereto the water needed for reaction, and debouches into a pipe-like collecting receptacle through a funnel arranged under the duct a in that in the bottom portion of the reaction container there is arranged a water supply container which angularly surrounds the collecting receptacle and which is connected with the spray nozzle arrangement by means of a pump.

Compl. specn. 15 pages. Drgs. 2 sheets.

CLASS : 129-G 155505

Int. Cl. : B 23 r 7/00.

APPARATUS FOR MAKING AN INSTANTANEOUS SCARFING START.

Applicant : UNION CARBIDE CORPORATION, AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK 10017, UNITED STATES OF AMERICA.

Inventor : STEPHEN AUGUST ENGEL.

Application No. 77/Cal/76 filed January 12, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

Apparatus for making an instantaneous thermo-chemical start on the surface of a ferrous metal workpiece comprising in combination :

(a) means for producing relative motion between said apparatus and said workpiece,

(b) means for feeding wire and for contacting a preselected spot on said surface with the end of said wire,

(c) means for heating the end of said wire to its oxygen ignition temperature,

(d) blowpipe means, for discharging a high intensity jet of oxygen gas, directed (1) such that the central axis thereof strikes a point on said surface located about 1–15 cm. behind said spot relative to the direction of travel of the apparatus over the work piece, (2) such that the included angle formed by said axis and said surface is between 30 and 80°, and (3) from a position behind or on the side of said point, and

(e) nozzle means for providing a stream of scarfing oxygen gas, directed at said surface at an angle of less than 90° to said surface such that the oxygen stream discharged from said nozzle strikes the surface slightly behihnd said point relative to the direction of travel.

Compl. specn. 23 pages. Drgs. 6 sheets.

CLASS : 186-A; 206-E & G 155506

Int. Cl. : H 03 b 27/00.

DIFFERENTIAL PHASE CORRECTING ARRANGEMENT.

Applicant : L.G.T. LABORATOIRE GENERAL DES TELECOMMUNICATIONS, OF 51, BOULEVARD DE LA REPUBLIQUE 78400 CHATOU (FRANCE).

Inventor : CLAUDE CLUNIAT.

Application No. 175/Cal/76 filed January 31, 1976.

Convention dated 21st October, 1975 (43229/75) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A differential phase correcting arrangement comprising a correcting cell having an input for receiving a signal to be corrected, a control input for receiving a control signal, and an output, said cell comprising : means for forming a further signal in phase opposition to the input signal, two parallel channels, respectively fed by said input signal and further signal, an adder having two inputs coupled respectively to the two outputs of said channels and one output coupled to said correcting cell output; one of said channels, hereinafter called the "compensated channel" having a phase-shifting device concluding a variable resistance element controlled by said control signal for varying the phase shift produced by said device and an oscillatory circuit having a grounded first terminal and a second terminal coupled (i) to said compensated channel output (ii) to said compensated channel input through a resistor, said variable resistance element having a first end coupled (i) to the input of said compensated channel through a voltage divider, (ii) to said control input of said correcting cell, and a second end coupled to said second terminal of said oscillatory circuit; said voltage divider being a divider by two, said resistance element being a P-Isolator-N diode and said resistor being equal to the damping parallel resistance of said oscillatory circuit.

Compl. specn. 15 pages. Drgs. 2 sheets.

CLASS 161-C 155507

Int. Cl. E 01 f 9/00.

VISIBLE MARKERS FOR ROAD SURFACES.

Applicants: MENDEL KING & RAY LTD., OF 81, STONEGATE ROAD, LEEDS LS6 4HZ, YORKSHIRE, ENGLAND.

Inventors : RAYMOND BRANNAN AND MENDEL KING.

Application No. 272/Cal/76 filed on 16th February, 1976.

Convention date U.K. 4th September, 1975 (36535).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims

1. A read marker comprising :

(1) a visible portion consisting of at least one reflector and/or light source;

(2) a translucent and hermetically-sealed casing enclosing the reflector(s) and/or light source, the surface of the or each reflector and/or light source being arranged against or integral with an inner face of the casing, the casing being shaped for sliding movement within a mounting;

(3) a mounting made of a synthetic plastics material and shaped so as to be fixable in the surface of a roadway and having a tubular portion within which the casing is movable and an aperture at its upper end to allow passage of the portion of the casing containing the reflector(s) and/or light source, and

(4) spring means made of synthetic rubber and arranged to urge said casing upwardly whereby the visible portion is normally held projecting from the aperture in the mounting.

Compl. specn. 14 pages. Drgs. 2 sheets.

CLASS : 37-A 155508

Int. Cl. : B 04 c 1/00.

CYCLONE SEPARATOR.

Applicant : RUHRKOHLE AKTIENGESELLSCHAFT, OF KELLINGHAUSER STRASSE 1, 4300 ESSEN 1, FEDERAL REPUBLIC OF GERMANY.

Inventor : JOSEF SCHIER.

Application No. 406/Cal/76 filed March 5, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A cyclone separator with a laterally closed metal casing, the upper part of which casing which, on the inner wall, has ceramic lining, is provided with a fan carrying a line for charging material and, below the fan, with a distributing plate which is surrounded by an inner ring placed at a distance, and the lower part of which casing is provided with a cone carrying the coarse product discharge and with a fine product discharge in the bottom of the casing, the inner ring and the cone being joined to one another by leuvered metal sheets, characterised in that the upper part of the casing has, over its entire circumference, window-like cutouts adjacent to one another and running in an axial direction and a resilient wear insert on the inner wall, and that arrangements are provided on the outer wall for acting upon the wear insert in the region of the cutouts.

Compl. specn. 10 pages. Drgs. 1 sheet.

CLASS : 156-D, F & G 155509

Int. Cl. : F 04 47/00, 47/02.

A PUMP DRIVE FOR A DEEP WELL PUMP.

Applicant : PREUSSAG AKTIENGESELLSCHAFT, OF ARNDTSTR. 1, 3 HANNOVER 1, FEDERAL REPUBLIC OF GERMANY.

Inventor : WILLIAM KENNETH JOURNEY.

Application No. 457/Cal/76 filed March 15, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A pump drive comprising a shaft, support means mounting said shaft for rotation about its axis, a first arm extending from said shaft at a substantial angle thereto, said first arm being normally horizontal, but being movable from the horizontal, coupling means on said first arm, a second arm extending from said shaft at a substantial angle thereto, said second arm normally extending vertically downward from said shaft, but being movable from the vertical, and weight means loading said second arm.

Compl. specn. 12 pages. Drg. 1 sheet.

CLASS : 156-F, D & G 155510

Int. Cl. : F 04 47/00, 47/02.

DEEP WELL PUMP.

Applicant : PREUSSAG AKTIENGESELLSCHAFT, OF ARNDTSTR 1, 3 HANNOVER 1, FEDERAL REPUBLIC OF GERMANY.

Inventor : WILLIAM KENNETH JOURNEY.

Application No. 458/Cal/76 filed March 15, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims

A deep well pump comprising a pump cylinder, adapted to be positioned in the ground, a foot valve structure having a foot valve, a valved piston movable in said cylinder over a given range of movement, and piston actuating means connected to said piston and having a length such that the actuating means is adapted to extend above the ground, said cylinder having a length such that it extends beyond said range of movement of the piston and also extends above the ground and having a substantially constant diameter over its length.

Compl. specn. 15 pages. Drg. 1 sheet.

CLASS : 9F 155511

Int. Cl. : C 22 c 1/00.

METHOD OF PREPARING A HEAT-RESISTANT ALUMINUM BASE ALLOY ELECTRICAL CONDUCTOR.

Applicants : SOUTHWIRE COMPANY, OF 126 FERTILLA STREET, CARROLLTON, GEORGIA 30117, UNITED STATES OF AMERICA.

Inventors : ENRIQUE HENRY CHIA, KENNETH ERYL CHADWICK AND FRANK MICHAEL POWERS.

Application No. 469/Cal/76 filed on 17th March 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

1. A method of preparing a heat-resistant aluminum base alloy electrical conductor having a minimum conductivity of sixty-one percent (61%) IACS comprising the steps of :

(a) alloying from 0.30 to 1.30 weight percent iron, from 0.20 to 1.60 weight percent cobalt, at least one additional alloying element, and the balance of aluminum;

(b) casting the alloy in a moving mold formed between a groove in the periphery of a rotating casting wheel and a metal belt lying adjacent to said groove for a portion of its length to form a continuous aluminum base alloy bar; and

(c) hot-rolling the continuous bar substantially immediately after casting while the bar is in substantially that condition as cast to form a continuous rod;

characterized in that said at least one additional alloying element is silicon in a range of from 0.48 to 0.88 weight percent with the balance of aluminum containing trace elements selected from the group consisting of copper, manganese, magnesium, titanium, vanadium and zinc wherein the individual concentrations of said trace elements do not exceed 0.05 weight percent and the total concentrations of said trace elements does not exceed 0.15 weight percent, and wherein said cast bar contains iron-aluminum-silicon-cobalt intermetallic precipitates that are broken-up and evenly dispersed throughout the aluminum matrix during the hot-rolling operation thus forming precipitates particles having a diameter of less than one micron when measured along the transverse axis of said particles.

Compl. specn. 21 pages. Drg. Nil.

CLASSES : 99E & 78 C 155512

Int. Cl. : E 06 b 5/00.

ANTI-RACKING MEANS FOR DOORS.

Applicant : WHITE WELDING AND MFG., INC., A CORPORATION OF THE STATE OF WISCONSIN, UNITED STATES OF AMERICA, OF KENOSHA, WISCONSIN 53141, UNITED STATES OF AMERICA.

Inventor : CLEARANCE EDWARD WHITE.

Application No. 596/Cal/76 filed on 6th April, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

Anti-racking means for use with the combination of a door frame, a pair of doors vertically hinged to the frame and presenting free edges which are adjacently located when the doors are in their closed position, and at least one vertically disposed rotary door-loocking bar associated with one of the doors, said anti-racking means comprising a first bracket having a base portion for securement to one of the doors and having a side portion with at least one projection in the form of a vertically oriented tongue extending perpendicular to the general plane of the base portion, a second bracket having a base portion for securement to the other door and having a side portion with at least one vertically oriented aperture of substantially the same dimensions of said tongue and arranged to receive said tongue, said side portions of said brackets being such that in use they are disposed in overlapping relationship when the doors are in their closed position, and said tongue of said first bracket being such as to be received in use in said at least one aperture of said second bracket when the door are in their closed position.

Compl. specn. 15 pages. Drgs. 5 sheets.

CLASS : 172 D 8 155513

Int. Cl. : D 01 h 7/66.

AN OPEN END SPINNING MACHINE.

Applicant : BARBER-COLMAN COMPANY, A CORPORATION ORGANIZED AND EXISTING UNDER LAWS OF THE STATE OF ILLINOIS, 1300 ROCK STREET, ROCKFORD, ILLINOIS 61101, UNITED STATES OF AMERICA.

Inventor : RICHARD ARTHUR SCHEWE.

Application No. 730/Cal/76 filed on 27th April, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

An open end spinning machine comprising at least one open end spinning unit having fiber feed and opening rolls, means for separating impurities from the opened fibers, a cleaning chamber for receiving the impurities, vacuum means for removing the impurities from the cleaning chamber, a spinning rotor in a spinning chamber, vacuum means for drawing the opened fibers into the spinning rotor, said spinning machine characterized by a rigid tubular member having means for structurally supporting said open end spinning unit and having means for conducting air from said spinning unit into said member.

Compl. specn. 10 pages Drg. 1 sheet.

CLASS : 33 A 155514

Int. Cl. : B 22 d 13/02.

MACHINE IN PARTICULAR FOR CENTRIFUGALLY CASTING HAVING AN AXIAL SUPPORT DEVICE.

Applicant : PONT-A-MOUSSON S.A., 91, AVENUE DE LA LIBERATION 54700 NANCY (FRANCE).

Inventor : FRANCOIS ZUSATZ.

Application No. 790/Cal/76 filed on 5th May, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A machine, in particular for centrifugal casting, comprising a fixed frame with respect to which frame there is mounted a case of revolution to be rotatable about its axis, said case being provided with an axial support device operative in one or the other direction and comprising a ring contained in a plane perpendicular to the axis and integral wtih the case and at least one support roller mounted on the frame in such manner as to be capable of rolling on a non-axial surface of the ring, wherein the axial support

device comprises a journal which is integral with the frame and disposed radially with respect to the case in the normal position of the mean plane of the ring and a lever is mounted to be freely rotatable on and perpendicular to the journal, and the lever carries two support rollers which have their axes contained in the plane of the axis of the journal and of the axis of the lever and are mounted to be freely rotatable on the lever, the ring having two main axial bearing surfaces between which the rollers are located, the distance between the bearing surfaces in the axial direction allowing an angular movement of the lever.

Compl. specn. 11 pages. Drg. 1 sheet.

CLASS : 33 A 155515

Int. Cl. : B 22 d 13/02.

INSTALLATION FOR HANDLING SOCKET CORES FOR A CENTRIFUGAL CASTING AND A SOCKET CORE FOR SAID INSTALLATION.

Applicants : PONT A MOUSSON S A., OF 91, AVENUE DE LA LIBERATION, 54 NANCY, FRANCE.

Inventors : MICHEL PIERREL AND ROGER MALIVOIR.

Application No. 826/Cal/76 filed on 11th May 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

21 Claims

An installation for handling socket cores intended to be fixed in a socket end of a centrifugal casting mould, the installation comprising a first core support pivotable about a fixed axis between a horizontal position and a vertical position and provided with means for positioning and maintaining a core, and a second core support having a horizontal axis movable between the first support and said socket end of the mould and provided with means for gripping the core, the two supports being provided with mutual centering means.

Compl. specn. 19 pages. Drgs. 4 sheets.

CLASS : 131 A 2 155516

Int. Cl. : E 21 d 15/00.

IMPROVEMENTS IN OR RELATING TO MINE ROOF SUPPORTS.

Applicant : FLETCHER SUTCLIFFE WILD LIMITED, HORBURY, WAKEFIELD, YORKSHIRE, ENGLAND.

Inventor : 1. PHILIP DUDLEY, 2. LEWIS ROBERT BOWER & 3. MALCOLM WAKE.

Application No. 880/Cal/76 filed on 21st May, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

30 Claims

A mine roof support comprising at least one pair of hydraulically extensible chock legs connected at upper ends in articulated manner between one or more roof beams of the support and connected at lower ends in articulated manner to one or more base members of the support, a rigid yoke located at a position spaced from the base member(s) between and connecting either the pair of chock legs, the yoke containing between the chock legs a projecting pin secured in a bearing attached to the yoke, or one of the pairs of chock legs, the yoke containing two projecting pins each pin being secured in a bearing attached to the yoke, and the or each pin having a lateral base contained at one side between abutment surfaces secured to the base member(s) and at the other to one end of a load applying means, the other end of the load applying means being supported from the base member(s).

Compl. specn. 21 pages. Drgs. 1 sheet.

CLASS : 144A 155517

Int. Cl. : B 05 c 1/06; 7/06.

SUBMERSIBLE PAINTING APPARATUS.

Applicants : A/S JOTUNGRUPPEN, OF SANDEFJORD, NORWAY.

Inventor : RUSSELL EDWARD WINN.

Application No. 1084/Cal/76 filed on 18th June 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

A remotely-controllable submersible apparatus for applying point underwater to a submerged surface, the apparatus comprising a remotely-controllable vehicle capable of being driven along a submerged surface, the vehicle having a housing defining a chamber having an open side and a pressure-reducing device capable in use of continuously maintaining a reduced pressure inside the chamber relative to the pressure outside the chamber so as to cause the vehicle to adhere to the submerged surface with the open side of chamber facing the submerged surface, and located at the rear of the vehicle remotely-controllable pointing means capable of applying by rotary brush means underwater point to the submerged surface.

Compl. specn. 13 pages. Drg. 3 sheets.

CLASS : 191 155518

Int. Cl. : B 41 j 23/32.

APPARATUS FOR CONTROLLING THE DRIVING ENERGY TRANSMITTED TO THE TYPING MECHANISM OF A TYPING MACHINE AND TYPEWRITERS INCORPORATING SUCH APPARATUS.

Applicants : SCM CORPORATION, 299 PARK AVENUE, NEW YORK, NEW YORK-10016, U.S.A.

Inventors : SAMUEL DOMINICK CAPPOTTO.

Application No.. 1948/Cal/75 filed 9th October, 1975.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

23 Claims

Apparatus for controlling the driving energy transmitted to the typing mechanism of a typing machine comprising a typing mechanism arranged to be driven by a rotatable power roll, said power roll being connected to energy transmitting means for transmitting energy from a motor to said power roll to drive said typing mechanism, energy absorbing means for absorbing a portion of the energy from said energy transmitting means and retaining said absorbed portion until after the typing mechhanism disengages from the power roll; and control means for controlling said portion of energy absorbed and thereby control the operation of said typing mechanism.

Compl. specn. 23 pages. Drg. 3 sheets.

CLASS : 181 155519

Int. Cl. F 16 j 15/00.

IMPROVEMENTS IN OR RELATING TO FLUID FACE SEAL ASSEMBLIES.

Applicant : J H FENNER & CO. LIMITED. HULL HU 9 5RA, NORTH HUNBERSIDE, ENGLAND.

Inventor : WILLIAM KERR.

Convention date (United Kingdom) 17th October, 1974.

Application No. 1997/Cal/75 filed on 15th October, 1975.

9 Claims

A fluid face seal assembly comprising an elastomeric annular seal for engaging in a recess of a stationary housing or the like component, said annular seal having radially inner and outer axially directed limbs which at one end are joined by a radially directed end wall, the

said limbs and said end wall co-operating to define an annular recess in said seal, a stiff ring-shaped element seated in said recess and having radially and axially directed portions bearing against corresponding regions of said annular seal to reinforce said seal, an axially directed extension on the radially inner limb of said annular seal, a step constituting a carrier member at the end of said extension remote from said limb, said step having a thickened free end, and an annular face seal engaging said carrier member and retained by said thickened in abutment against the shoulder between said step and the remainder of said extension, a retainer supporting at least said step and the adjoining part of said extension, said retainer acting to compress said thickened end between itself and a radially adjacent part of said face seal thereby mechanically to lock said face seal onto said carrier member, means for preventing relative rotation between said face seal and said annular seal, and spring means acting between said face seal and said annular seal to maintained a resilient relationship between the two.

Compl. specn. 10 pages. Drg. 2 sheets.

OPPOSITION PROCEEDINGS

(1)

The opposition entered by M/s. Kaveri Plastichem Private Limited to the grant of a patent on application for Patent No. 148236 made by Shri Rajendra Tikamani as notified in the Gazette of India, Part-III, Section 2 dated 6th June, 1981 has been dismissed.

(2)

The opposition entered by Council of Scientific and Industrial Research and Orissa Cement Limited to the grant of a patent on application No. 153000 made by Director General, Cement Research Institute of India as notified in the Gazette of India, Part-III, Section 2 dated the 12th January, 1985 have been dismissed and ordered that a patent to be sealed.

(3)

The opposition entered by Mr. Jacob Varughese to the grant of a Patent on application No. 146633 made by GHEWARCHAND VIRCHAND JAIN as notified in PART-III, Section 2 of the Gazette of India dated the 26th January, 1980 has been allowed and the grant of a patent on application refused.

((4)

An opposition has been entered by M/s. Khaitan Fans Private Limited to the grant of a patent on application No. 153397 dated the 13th November, 1979 made by M/s. Jay Engineering Works Limited.

PATENTS SEALED

151124 152000 152169 152197 152226 152273 152290 152294 152300 152369 152459 152604 152752 152754 152765 152766 152767 152768 152771 152773 152775 152777 152803 152805 152810 152811 152816 152825 152826.

REGISTRATION OF ASSIGNMENTS, LICENCES, ETC.

(PATENTS)

Assignments, licences or other transactions affecting the interests of the original patentees have been registered in the following cases. The number of each case is followed by the names of the parties claiming interests :—

122501	..	Marugen Petrochemical Co. Ltd.
125461	..	Davy International Aktiengesellschaft.
134072	..	Dodwell and Company Limited.
137187	..	Albert Tschan GMBH & Co. KG.
137298	..	Walter Carl Avrea.
140589	..	Graver Tank & Mfg. Co. Inc.
142649	..	Nibco Inc.
143436	..	(i) Ortenheim Innomarketing A.B. (ii) Electromobiles (India) Limited.
143820, 144725	..	International Property Development Corporation S.A.
143622	..	E.I.Du Pont De Nemours and Company.
144048	..	Schubert & Salzer Maschinenfabrik Aktiengesellschaft.
145749	..	Unimount, Inc.
145522, 145524	..	Rayovac Corporation.
148918	..	Graver Tank & Mfg. Co. Inc.
103431, 105048, 98905, 98962, 126299, 130577	..	International Standard Electric Corporation.
143537, 144088	..	B. & W. Diesel.
133683	..	BAYER A. G.
139695	..	Gerhard HUG GmbH.
144858	..	British Steel Corporation.
149658	..	University of South Carolina.
123166	..	Tsukishima Kikai Co. Ltd.
146360	..	GKN Screws & Fasteners Limited.
142959, 144585, 146055	..	E.N.I. Ente Nazionale Idrocarburi.
141631, 147574	..	Flogates Limited.
116261	..	Polychem Limited.
119444	..	Polychem Limited.
148523	..	Kabelmetal Electro GMBH.
149154	..	Vickers Public Limited Company.
128054, 127736, 132008, 135974	..	MC Acquisition Corporation.
123194	..	Establishment Salgad.
140868	..	Institut De Recherche Appliquee Sur Les Polymeres (I.R.A.P.).
138990, 139081, 139516, 139646, 140816	..	Warner Lambert Technologies, Inc.

MECH. & GEN. ENGG. LIST-III

COMMERCIAL WORKING OF PATENTED INVENTIONS

The following Patents in the field of Mechanical & General Engineering Industry are not being worked commercially in India as admitted by the Patentees in the statements filed by them under Section 146 (2) of the Patents Act, 1970 in respect of calender year 1983, generally on account of want of requests for licences to work the Patented inventions. Persons who are interested to work the said Patents commercially may contact the Patentees for the grant of a licence for the purpose.

Sl. No.	Patent No.	Date of Patent	Name & Address of the Patentees	Title of the invention
1	2	3	4	5
1.	136098	4-7-1972	JOHNSON & JOHNSON, 501 George Street, New Brunswick, New Jersey, U.S.A.	Improved dispensing container.
2.	136105	21-10-1972	IMS LIMITED, 408, South Spring Street, Swite 510, LOS Angeles, California, 90013, U.S.A.	Medicament injector.
3.	136120	25-7-1972	THE AIR PREHEATER CO. INC. Andover Road Wells ville, New York, UNITED STATES OF AMERICA.	Rotor for heat exchangers.
4.	136126	16-9-1972	DEERE AND COMPANY, Moline, Illinois, U.S.A.	Self levelling combine.
5.	136142	27-5-1972	THE WARNER & SWASEY CO. University Circle Research Centre, 11000 Cedar Avenue, Cleveland, Ohio, 44106, U.S.A.	Machine Tool.
6.	136147	25-8-1972	INTERNATIONAL HOUSING LIMITED, P. O. BOX 1379, Pembroke, Bermuda	System for making cast-in-place concrete structures.
7.	136179	26-5-1972	SYBRO CORPORATION, 1100, Midtown tower, Rochester, New York.	Force balance instrument with overload release mechanism.
8.	136186	22-11-1972	GIRLING LIMITED, Kings Road, Tyseley, Birmingham 11, England.	Break shock adjusters.
9.	136195	25-5-1972	SANDVIK AKTIEBOLAG, Fack, S-81101, Sandviken 1.	Eccentric drill tool.
10.	136205	13-10-1972	DR. C. OTTO & COMP., G.m.B.H. Bochum, West Germany.	Vertical regenerator for horizontal coke ovens.
11.	136241	28-6-1972	BATTELLE DEVELOPMENT CORPORATION, 505, King Avenue, Columbus, Ohio, 43201, U.S.A.	Improving flexural stength in fibre containing concrete.
12.	136287	29-8-1972	GERARD BLUM, 12 Rue Pont Proviller La Tronche, Isere, France.	Improvements in the measurement of flat flexible articles.
13.	136330	15-1-1972	Ethicon INC. Sommerville, New Jersey U.S.A.	Retention suture bridge.
14.	136332	6-12-1972	Carborundum Universal Ltd. 11/12 North Beach Road, Madras-1, India.	Improvements in or relating to scrubbing and mopping pads.
15.	136351	23-7-1971	ABILDGAARD LABORATORIES, of 857, Mande avenue, Mountain view California 94040, U.S.A.	Method of forming cased books and cased books made thereby.
16.	136358	17-6-1972	ARMOSIG, 22 Avenue de la Jonchere, 78, La Celle-Saint-cloud, France.	Method and hot die for extruding tubular sections.
17.	136367	29-6-1972	Siemens Aktiengesellschaft, Berlin & Munich, Germany (W).	Method of an apparatus for controlling a synchronous machine.
18.	136382	27-7-1972	Geschafts—Und Insutriebau B. Moeller & Co. Scheuchzerstrasse 64, Zurich, Switzerland.	Frame work for travelling crane.
19.	136398	13-12-1972	Knorr Bremse G.M.B.H. 80, Moosacherstrasse, 8, Munchen, 3, Federal Republic of Germany.	Control valve for pressure air brake installation on railway vehicles.
20.	136428	27-7-1972	THE K. C. P. LTD. of 38 Mount Road, Madras-6, INDIA.	Rawl plug.

1	2	3	4	5
21	136430	27-6-1972	AILOH CO. LTD.of No. 1-39, 2, chome, Ikenhata, Taito-ku, Tokyo, Japan.	An improved method of forming ingots of molten metals.
22.	136436	23-10-1972	KOPPERS COMPANY INC. of 436 Seventh avenue, Pittsburgh, Pennsylvania, U.S.A.	An in annulus for use in resilient coup-lings.
23.	136438	24-4-1972	Snamprogetti S.p.A. 16, Corso Venezia Milan, Italy.	A micro-container and a process for the the production tflereof.
24.	136454	12-6-1972	James Alexander Mackenzie, 100, Bron-son Avenue, Ottawa, Ontario, Canada.	Constructional element.
25.	136486	6-11-1972	Parks Cramer Company, of Post Office 444, Fitchburg, Massachusette, U.S.A.	Apparatus for and the step of interrup-ting supply of strand in a method of forming yarn in a yarn forming machine.
26.	136509	5-1-1973	CATERPILLAR TRACTOR COMPA-NY OF 100 N E.Adams,Street, Peoria, Illinois 61602, U.S.A.	Air-Cooled resilient coupling assembly.
27.	136531	26-4-1973	ISHIKAWAJIMA-HARIMA JUKOG-YO KABUSHIKI KAISHA OF 2-1, 2-Chome Ote-machi, Chiyoda-ku, Tokyo-to, JAPAN.	Furnace.
28.	136563	16-11-1972	KELVINATOR INC. of 1545 Clyde Park Avenue, S. W. Grand, Rapids, Michigan, U.S.A.	Manufacture of heat exchanger wall assembly and refrigerator unit having same.
29.	136616	7-2-1973	INTERCOLE AUTOMATION INC. of 12011 Van Vicente Bouleyard, Los An-gles, California, U.S.A.	Mixing apparatus.
30.	136623	27-5-1972	USS ENGINEERS AND CONSUL-TANTS, INC. of 600 Grant Street, Pitts-burgh, State of Pennsylvania, U.S.A.	Sliding gate closure machinism for controlling flow of molten metal.
31.	136652	5-7-1972	N. V. HOLLANDSE SIGNAALAPPA-RTENS of 40 Zindelyke, Howenweg, Hengels (O), the Netherlands.	A method for the manufacture of yarn.
32.	136653	8-8-1972	DIAMOND POWER SPECIALITY CORPORATION, of U. S. Route, 22 East, Lancaster, Ohio, U.S.A.	A method of clearing hot surfaces by utilizing jet to dislodge deposits from hot surfaces and an apparatus therefor.
33.	136662	27-7-1972	THE K. C. P. LTD. of 38 mount Road, Madras-6, India.	Improvements in or relating to hammer drill.
34.	136684	5-1-1973	CATERPILLAR TRACTOR COM-PANY, of 100 N. E. ADAMS Street, Peoria, Illinois 61602, U.S.A.	Track-type vehicles with modular final drive.
35.	136702	26-6-1972	CANON KABUSHIKI KAISHA of 30-2, 3-chome, Shimomaruko, Ohta-ku, Tokyo, Japan.	Electrophotographic copying machines.
36.	136710	4-11-1973	Caterpillar Tractor Co. of 100 N. E. Adams Street Peoria, Illinois, 61602, U.S.A.	Hydraulically powered drive and steering system for track-type vehicle.
37.	136729	26-7-1972	SEALED POWER CORPORATION, of 20001, Sanford street, muskegon, State of Michigan, 49443, U.S.A.	An improved method and apparatus for making a latch in piston ring expander.
38.	136734	16-3-1973	SCHOTTEL WARFT JORSEF BEC-KER KG. of spay/Rhein, F.R.G.	Steerable propeller for water craft.
39.	136744	5-10-1972	CARRINGTON & DEWHURST LTD. of Grove Mill, Eccleston, Near Chorley, Lancashire, England.	Improvements in or relating to fluid jet looms.
40.	136768	27-7-1971	JOHNSON & JOHNSON of 501 George Street, New Brunswick, New Jersey, U.S.A.	Improvements in or relating to synthetic resin binder composition for bonding porous absorbent, fibrous materials.
41.	136836	22-9-1972	ELI LILLY & CO. of 740 South Ala-bama Street, Indianapolis Indiana, U.S.A	Optical system for capsule inspection.

1	2	3	4	5
42.	136911	8-9-1972	DEERE & COMPANY OF Moline, Illinois, U.S.A.	Hydraulic system and more particularly to the attenuation of pressure pulsation in hydraulic circuits.
43.	136933	15-11-1972	CARBORUNDUM UNIVERSAL LTD. of 11/12 North Beach Road, Madras 1, India.	Improvements in or relating to obrasive discs.
44.	136959	8-5-1973	DR. C. OTTO & COMP. GMBH. OF Christstrasse, 9, 463, Bochum, West Germany.	Door for horizontal cooking ovens.
45.	136971	2-11-1972	BATTELLE DEVELOPMENT CORPORATION OF 505, King avenue, Columbus, Ohio 43201, U.S.A.	Concrete structural member.
46.	137020	31-1-1973	KABUSHIKI KAISHA YAMADA JUKI OF 32, 4-Ban, Kumano-cho, Nishinomya City, Hyogo, Prefecture, Japan.	Percussion apparatus.
47.	137025	6-9-1972	VAKUUM VULK HOLDINGS OF 360 Queen Street, Nassau/Bohamas.	Retreading and vulcanising process.
48.	137035	21-9-1972	UNION CARBIDE CORPORATION OF 270 Park Avenue, New York, State of New York 10017, U.S.A.	Apparatus for casting metal objects.
49.	137090	28-11-1972	SANDVIK AKTIENGESELLSCHAFT FACK-S, 811 01, Sandviken 1, Sweden.	Improvements in or relating to milling cutters.
50.	137093	24-1-1973	ERIK SOLBECK OF 342, Vedback Strandve 2950, Vedback, Denmark.	A machine for producing non-woven nettings.
51.	137112	24-8-1973	RUTI MACHINERY WORKS LTD. of 8630 Ruti, Zurich, Switzerland.	Temple roller.
52.	137120	5-5-1973	AG FR METTLER'S SONS. LTD. of 6415 Arth, Switzerland.	Apparatus for singeing threads.
53.	137140	2-7-1973	NATIONAL INSTITUTE OF DESIGN of Paldi, Ahmedabad-7, India.	Cycle.
54.	137162	17-3-1973	S. A. DES ANCIENS ETABLISSMENTS PAUL WURTH, of 32 rue d' Alsace, Luxembourg, Grand Duchy of Luxembourg.	Improvements in and relating to a metering device for control of the material flow when charging shaft furnaces.
55.	137172	9-4-1973	REPCO RESEARCH PROPRIETORY LTD, of Cranbourne Road, Dandenong, In the State of Victoria, Commonwealth of Australia.	Improved fluid seal.
56.	137174	30-9-1972	McNEIL-AKRON INC. OF 96 East Crosier Street, Akron, Ohio 44311.	A method and press for shaping and curing tyres.
57.	137232	17-3-1973	S. A DES ANCIENS ETABLISSMENTS PAUL WURTH, of 32 rue d' Alsace, Luxembourg, Grand, Duchy of Luxembourg.	Improvements in and relating to metering installations for shaft furnaces particularly blast furnaces.
58.	137263	5-1-1973	CATERPILLAR TRACTOR CO. of 100 N.E. ADAMS STREET, Peoria, State of Illinois 61602, U.S.A.	Gear drive mcechanism, for excavators.
59.	137264	2-1-1973	GIRLING LIMITED OF Kings Road, Tyseley, Birmingham 11, England.	Improvements relating to automatie adjuster for shoedrum brakes.
60.	137287	3-1-1973	ELITEX ZAVODY TEXTILNIHO STROJIRENSTVI GENERALNI REDITELS, TVI, of Liberee, Czechoslovakia.	Control circuit for feeding, printing ink into a cylindrical stencil via a pressure nozzle in machines for printing web materials particularly textiles.
61.	137294	13-12-1972	KNORR BREMSE GmbH of 80 Moosacher strasse 8, munchen, 13 Federal Republic of Germany.	Control valve pressure air brake installations in railway vehicles.
62.	137324	30-3-1973	PREROVSKE STROJIRNY NARODKI PODNIK OF Prerov Gzechoslovakia.	Arrangement for heat-treatings of lump and loose material.

1	2	3	4	5
63.	137327	10-8-1973	DEERE & COMPANY, of moline, Illinois, U.S.A.	Radiator for liquid cooled internal combustion engines particularly for agricultural machines.
64.	137426	9-11-1972	BATTELLE DEVELOPMENT CORPORATION OF 505 King Avenue, Columbus, Ohio 43201, U.S.A.	A method of making reinforced concrete structure or body and structures so made.
65.	137445	27-11-1972	GORDON SMISER LACKY of 529 West Fourth Street, E.S. Condido, California, U.S.A.	A ball point cartridge assembly.
66.	137488	5-1-1973	CATERPILLAR TRACTOR & COMPANY of 100 N E Adams Street, Peoria, Illinois 61602, U S.A.	Hydraulic circuitry for an excavator.
67.	137489	5-1-1973	Do.	Swing transmission for excavators.
68.	137527	2-7-1973	The K C P LTD of Ramakrishna Bldg 38 Mount Road, Madras-600006, India.	A clarifying apparatus for use for the clarification of sugar cane juice and other liquids.
69.	137544	11-4-1973	SOCIETE NATIONALE DES POUDRES ET EXPLOSIFS., of 12 Quai Henri IV, Cedex 04, 75181, Paris, France.	Improvements in or relating to tool holders.
70.	137552	27-12-1972	UNION CARBIDE CORPORATION OF 270 Park Avenue, New York, State of New York 10017, U.S.A.	A device capable of surface injection of gas in the form of small discrete bubbles in the mass of molten metals in an enclosure.
71.	137554	14-9-1973	PALTTEX PROJECT COMPANY GmbH of Weeserweg 8, 415 Krefeld, West Germany.	Double twisting spindle with a twisting arm swivellable in a vertical direction.
72.	137559	23-3-1973	CATERPILLAR TRACTOR CO. of 100 N E Adams Street, City of Peoria, State of Illinois 61602, U.S.A.	Brake control system.
73.	137617	15-11-1972	DAINICHI NIPPON CABLES CO. Etc. of No. 8, Nishinocho, Higashi, Mukaijima, Amagasaki-shi, Hyogo-ken, Japan	Method of multilayered fabricated articles.
74.	137702	16-2-1973	XAVIER LIPP, of D-7091 Tannhausen Krels Aalen, German, Federal Republic.	Improvements in and Relating to apparatus for and a method of joining the edges of two sheet portions together.
75.	137708	12-7-1973	NORTHEY ROTARY COMPRESSORS LIMITED OF Alder Road, Parkstone, Poole, Dorset, England.	A rotary, engines or pumps.

LIST-IV, MECH. & GEN. ENGG.

COMMERCIAL WORKING OF THE PATENTED INVENTION

The following Patents in the field of Mechanical and General Engineering Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under section 146(2) of the Patents Act, 1970 in respect of calender year 1983, generally on account of want of requests for licences to work the Patented inventions Persons who are interested to work the said Patents commercially may contact the Patentees for the grant of licence for the purpose.

Sl. No.	Patent No.	Date of Patent	Name & Address of the Patentees	Title of the invention.
1	2	3	4	5
1.	137710	6-8-1973	DEERE & COMPANY of moline, Illinois, U.S.A.	Rear-axle support for automatic equipment or machines particularly harvester, threshers.
2.	137753	16-10-1973	PALITEX PROJECT COMPANY GmbH of Weeserweg 8, 415, Krefeld, West Germany.	Double twisting spindle.
3.	137786	7-7-1973	R. A. LISTER AND COMPANY LIMITED OF Victoria Iron Works, Lohg Street, Dursiay Gloucestershire, England.	Lubricating pump.

1	2	3	4	5
4.	137792	27-12-1972	SIEMENS AKTIENGESELLSCHAFT, of Berlin & Munich, Germany (W).	Improvements in or relating to the construction of axial-flow rotary machine housings.
5.	137819	22-6-1973	ETHICON ENC. of sommerville New Jersey, U.S.A.	A surgical suture.
6.	137838	16-10-1973	PALITEX PROJECT COMPANY GmbH, of Weeserweg, 8,415 Krefeld, West Germany.	A device for stopping and locking carriage for a servicing device for a twisting machine spooling machine, or the like.
7.	137844	3-1-1973	SULZER BROTHERS LTD. of Winterthur Switzerland.	Steam-generating apparatus.
8.	137855	5-1-1973	CATERPILLAR TRACTOR CO. of 100 N.E. Adams Street, Peoria, Illinois 61602, U.S.A.	A mounting assembly for slidably supporting a track idler.
9.	137878	15-6-1974	FEDERAL-MOGUL CORPORATION of 26555 Northeastern, Highway, Southfield, Michigan 48075, U.S.A.	A bearing assembly.
10.	137896	10-8-1973	DEERE & COMPANY, of Moline, Illinois, U.S.A.	Device for attaching and clamping harvesting machines particularly of harvesting or corncollecting accessory on the inclined conveyor of a harvester thresher.
11.	137902	19-1-1973	WHITE WELDING AND MFG. INC. of 7040-60th Avenue, Kenosha, State of Wisconsin, 53141, U.S.A.	Rotory bar guide assembly for rotory bar door locking mechanism.
12.	137934	27-9-1973	BUREAU BBR LTD. of Riesbachstrasse 57, Zurich, Switzerland.	Apparatus for anchoring wires or stranded wires.
13.	137939	25-1-1974	HYDERABAD ASBESTOS CEMENT PRODUCTS LTD. of 9-1, R. N. Road, Calcutta-1, State of West Bengal, India.	Asbestos Cement sheets.
14.	137945	17-2-1973	ERNEST POLLARD of Bank House, Harden Bingley, Yorkshire, England.	Improvements in or relating to drive belting and endless drive belts made therefrom.
15.	137969	14-6-1973	PALITEX PROJECT COMPANY GmbH. of Weeserweg 8, 415, Krefeld, West Germany.	A double twisting machine having a hand knotte.
16.	137983	18-7-1973	SEAMAN CORPORATION, of R.D.I. Millersburg, in the State of Ohio, United States of America.	Rigid frame tension fabric structure.
17.	137996	28-3-1973	BURROUGHS CORPORATION of Second Avenue of Burroughs, Detroit, Michigan 48232, U.S.A.	Device for singulating or feeding documents one-at-a time from a stock.
18.	137998	10-11-1972	SANDVIK AKTIEBOLAG OF FACK S-811, 01, Sandviken-1, Sweden.	Cutting elements for cutting tools & a method of forming the same.
19.	138056	8-8-1973	DEERE & COMPANY, of Moline, Illinois, U.S.A.	Corn tank for harvest thresher.
20.	138058	12-10-1973	KRAFTWERK UNION AG. of 4330, Mulheim-Kuhr, Wiesenstrasse, 35, F.R.G.	An axial flow turbine.
21.	138072	16-10-1973	PALITEX PROJECT COMPANY GmbH. of Weeserweg 8, 415, Krefeld, West Germany.	Device and method for use in positioning of a spindle rotor of a spinning or twisting spindle especially a double twist.
22.	138078	17-7-1973	C. A. NORGREN LIMITED, of Campden Road Shipston-on-stour Warwickshire, England.	Means for coupling fluid control components in fluid lines.
23.	138098	7-8-1973	THE CROSS COMPANY of 17801, Fourteen Mile Road, Fraster, Michigan, U.S.A.	Test stand for vehicle engines.

1	2	3	4	5
24.	138116	30-11-1973	ISHIKAWAJIMA-HARIMA JUKOGYO KABUSHIKI KAISHA. of No. 2-1, 2-chome, Ote-Machi, Chiyoda-ku, Tokyo-to, Japan.	Rotary kiln apparatus with suspension preheater having burner for calcining.
25.	138192	20-2-1973	ESTABLISSEMENT SALGAD, of Vaduz, Liechtenstein.	Explosive ptojectiles.
26.	138195	11-1-1974	WESTINGHOUSE AIR BRAKE COMPANY OF PITSBURG, State of Pennsylvania, U.S.A.	Blending valve device—for combining fluid pressure and dynamic brakes.
27.	138221	11-1-1974	WESTINGHOUSE BRAKE AND SIGNAL COMPANY LTD. of 3 John Street, London WC 1N, England.	Brake cylinder release valve apparatus.
28.	138249	10-7-1973	FERRANTI LIMITED of Hollinwood, Lancashire, England.	An inertial guidance system for air craft.
29.	138285	22-9-1973	VYKUMNY UTSAV BAVLVARSKY of Usti Nad Orlici, Czechoslovakia.	Method of and apparatus for stopping are opening-end spinning machine.
30.	138289	13-6-1973	TOKYO JUKI KOGYO KABUSHIKI KAISHA of 8-2-1, Kokuryo-Machi, Chofu-shi Tokyo, Japan.	Improvements in or relating to a typing machine for selectively typing on a sheet, a large number of characters.
31.	138321	16-4-1974	GIRLING LIMITED OF KINGS ROAD, Tyseley, Birmingham 11, England.	Fluid-Pressure brake system.
32.	138325	12-11-1973	BURROUGHS CORPORATION OF FURROUGHS PLACE, Detroit, Michigan, 48232, U.S.A.	Firm ware and method of manufacturing the same.
33.	138341	14-8-1973	Do.	Improved incremented feed device for advancing paper tape record cards and linked ribbon in a printer.
34.	138344	29-11-1973	NIPPON HOSSO KYOKAI of No. 2-1, 2-Chome, Jinnan, Shibuya-ku, Tokyo, Japan.	A carrier converting equipement.
35.	138356	6-4-1973	PERSONAL PRODUCTS COMPANY, of Milltown, New Jersey, U.S.A.	Absorbent dressing.
36.	138360	17-4-1974	F. L. SMIDTH & CO. A/S. of 77 Vigerslev, Alle ope hagen-valby, Denmark.	Improvements in plants for burning granular or pulverous material.
37.	138377	3-3-1973	Societe Nationale Des Poudres Et Explosifs, of 12 Quai Henri IV, 75181 Paris Cedex 04, France.	Solid fuel rocket engine.
38.	138433	16-8-1973	BURROUGHS CORPORATION. of Burroughs Place, Detroit, Michigan 48232, U.S.A.	A system for accessing a desired record record of sequential file in a storage medium.
39.	138458	8-8-1973	BURROUGHS CORPORATION OF BURROUGHS PLACE, Detroit, Michigan 48232, U.S.A.	Apparatus for cooled binary data retrival.
40.	138492	26-6-1973	Hoechst Aktiengesellschaft of 6230 Frankfurt/Main, 80 F.R.G.	Process for fixing prints with reactive dyestuffs on textile materials of native or regenerated cellulose & mixture thereof with synthetic fibres.
41.	138497	15-5-1973	ETHICON INC. of sommer ville, New Jersey, U.S.A.	A swaged needle-suture combination.
42.	138541	19-4-1973	BURROUGHS CORPORATION of Second Avenue, Detroit Michigan 48232, U.S.A.	Device for aiding the stacking of documents.
43.	138565	1-5-1974	COMBUSTION ENGINEERING INC. of 1000 Prospect Hill Road, Windsor, Connecticut, U.S.A.	Metal working apparatus.
44.	138585	22-3-1973	GIRLING LIMITED of Kings Road, Tyseley, Birmingham 11, England.	Improvements in brake adjusters.

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45.	138595	9-5-1972	FRANZ PLASSER BAHNBAUMA-SCINEN INDUSTRIEGESE-LISCHA-FT m.b.H. of Johannesgasse 3, Vienna 1, Austria.	Improvements relating to mobile machine for distributing and profiling the bedding ballast of a railway track.
46.	138598	28-11-1973	OANTIX CORPORATION of 130 Main Street, Flemington, New Jersey, U.S.A.	Front projection screen, made from a transparent materials.
47.	138639	22-5-1973	SOCIETE NATIONALE DES POUDRES ET EXPLOSIFS of 12 Quai Henri IV, Cedex 04, 75181, Paris, France.	Apparatus for machining the inside of large cylindrical bodies.
48.	138653	15-12-1975	THE WARNER & SWASEY CO. of University Circle Research Centre, 11000 Carder Avenue Cleveland, Onio 44106, U.S.A.	A machine tool operating on a work piece.
49.	138681	19-11-1973	CATERPILLAR TRACTOR COMPANY, OF 100 N. E. Adams Street, Peoria, Illinois 61602, U.S.A.	Flat track shoe with tapered end ribs.
50.	138720	8-8-1973	BURROUGHS CORPORATION OF BURROUGHS PLACE, Detroit, Michigan 48232, U.S.A.	Apparatus for regulating input/output traffic of a date processing system.
51.	138746	12-2-1973	ONODO CEMENT COMPANY LTD. of 6276, Uazo, Canada, Onoda-shi, Yamaguchi-ken, Japan.	Apparatus for heating end calcining of powder and/or pulverized materials.
52.	138767	4-4-1974	FRIED KRUPP GESELLSCHAFT Mit BESCHCHRANKTER HAFTUNG of Altendorfer Strasse 103, D-43, Essen, F.R.G.	Floating body of metal and a process for the manufacture thereof.
53.	138775	12-10-1973	DEERE & COMPANY, of Moline, Illinois, U.S.A.	An agricultural machine having an engine enclosure and including means filtering the engine, the cooling air.
54.	138777	3-6-1974	KUMANDUR SRINIVASIYENGAR RANGASAMI Etc of Rourkela, 8, Orissa State, INDIA.	Improvements in or relating to double layered braced domes.
55.	138802	3-3-1973	JACQUES HENRY MERCIER of 49 rue de Naples, Paris (8 eme), France.	Improvements in or relating to a pressure vessel.
56.	138820	14-1-1974	G. D. SOCIETA PER AZIONI OF VIA Pomponia 110, Bologna, Italy.	Device for coordinating and feeding separately objects particularly sweets similar to a wrapping machine.
57.	138842	12-6-1973	EMHART (U. K.) LTD., of Crompton Road, Wheatley, Doncaster, Yorkshire, England.	Valve block.
58.	138897	2-2-1973	SAINT-GOBAIN INDUSTRIES OF 62 Boulevard Victor-Hugo, Neuilly-Sur-seine, France.	A composite constructional element for acoustic insulation and a product including the element.
59.	138915	24-10-1973	BURROUGHS CORPORATION OF BURROUGHS PLACE, Detroit, Michigan 48232, U.S.A.	Card feeding apparatus.
60.	138918	14-5-1974	SCHUBERT & SAIZER MASCHINEN Fabrik AG of 8070, Ingolstadt, Friedrich-Ebert-Strasse, 84, West Germany.	A spinning machine.
61.	138926	12-3-1973	JACQUES HENRY MERCIER, of 49 rue, de Naples, Paris (8 eme), France.	Pressure vessel.
62.	138953	13-6-1973	CANADIAN JESUIT MISSIONS of 833 Broad View Avenue, Toronto, Ontario Canada M4K 2 p 9.	Internal combustion engine using hydrogen as a fuel.
63.	138974	27-6-1973	PALITEX PROJECT COMPANY GmbH, of Weeserweg 8, 415, Krefeld, West Germany.	Section means especially for use on spinning twisting or winding machine.

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64.	138992	24-5-1974	WESTERWALDER EISENWERK GERHARD KG of 5241 Wenteteld/Sieg-Federal Republic of Germany.	Fluid-light transport container for flowable goods.
65.	139002	7-8-1973	THE CROSS COMPANY, of 17801, Fourteen Mile Road, Fraser, Michigan, 48026.	Test stand for vehicle engines.
66.	139042	23-5-1973	ROY JOSEPH WEIKERT C/o. General Films Inc. Covington, Ohio, U.S.A.	Filling and sealing system.
67.	139044	16-1-1974	VYZKUMNY USTAAV BAVLNARSKY, of Usti Nad Orlici, Czechoslovakia,	Apparatus for separating fibres for ringless spinning.
68.	139094	17-7-1974	GIRLING LIMITED of Kings Road, Tyseley, Birmingham 11, England.	Improvements in disc-brakes.
69.	139113	16-8-1973	BURROUGHS CORPORATION, of Burroughs Place, Detroit, Michigan, 48232, U.S.A.	Multi processing system having means for dynamic redesignation of unit functions.
70.	139150	11-7-1973	McNELL-AKRON INC. OF 96 East crosier street, akron, Sumit, county, ohio, 44311, U.S.A.	Apparatus for holding an uncurved pneumatic tire.
71.	139185	7-8-1974	GENERAL ELECTRC COMPANY, of 1 River Road, Schenectady, New York, U.S.A.	Cooling system for cooling internal combustion engine.
72.	139189	18-5-1973	ISHIKAWAJIMA-HARIMA JUKOGYO KABUSHIKI KAISHA OF No. 2-1, 2-Chome, Ote-Machi, Chiyoda, Tokyo-to, Japan.	Apparatus for burning materials of cement and the like.
73.	139219	8-10-1973	THE WARNER & SWASEY CO. OF UNIVERSITY CIRCLE, RESEARCH CENTRE H, 11000 Cedar Avenue Cleveland, Ohio 44106—U.S.A.	Machine tool with tail stock.
74.	139220	18-10-1973	BURROUGHS CORPORATION OF BURROUGHS PLACE, Detroit, Migan 48232, U.S.A.	Print train a printing mechanism incorporating said print train and printing block for use therein.
75.	139238	4-4-1974	KRAFTWERK UNION AG. of Wiesenstrasse 35, 4330 Mulneim-Ruhr, Federal Republic of Germany.	A shaft packing assembly for a shaft mounted in an axially undivided outer housing.

RENEWAL FEES PAID

124710 124771 124790 124899 124900 125000 125052 125654
129961 133217 134237 134238 134305 134363 136562 136595
137356 137357 137338 137516 138060 138393 138394 138596
140458 140681 140959 141075 141441 141456 141513 141857
143458 143484 143498 143832 144690 145122 145313 145353
145583 146497 147242 147795 147806 148101 148139 148261
148442 149506 149902 150205 150707 150743 150746 150767
150903 150911 151113 151802 151823 151842 151900 151957
152096 152163 152171 152175 152221 152227 152375 152412
152413 153439 152496 152497 152503 152529 152531 152532
152534 152535 152740.

RESTORATION PROCEEDINGS

Notice is hereby given that an application for restoration of Patent No. 147712 dated the 16th June, 1978 made by Govinda Vadyanatha Ramaswami on the 9th March, 1984 and notified in thhe Gazette of India, Part III, Section 2 dated the 30th June, 1984 has been allowed and the said patent restored.

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 154521 to 154530. Prabhudas Jamnadas Vora, Indian National of Somerset House, 14th floor, Shahkari Bhandar Lane, Off, Bhuleshwar Desai Road, Bombay-400 026 Maharashtra State, India & 2 Nagindas Jamnedas Vora also Indian National of Urvashi, Nepean Sea Road, Bombay-400 006, Maharashtra State, India. "Metal Sheets". 20th June, 1984.

Class 1. No. 154694 Haridas Gangdas Patel, an Indian of 30 Digvijay Plot, Jamnagar, Gujarat, India. "Door Closure". 14th August, 1984.

Class 1. No. 154737. Khaitan Electricals Limited, an Indian Company incorporated under the Companies Act, 1956, having its Registered Office at 46C J. L. Nehru Road, Calcutta-700 071, West Bengal. India. "Industrial Fan Motor". 27th August, 1984.

Class 1. No 155082. Eagle Flask Private Limited under the Indian Companies Act at Eagle Estate Talegaon 410 507, District Pune, State of Maharashtra, India. "JUG". 23rd November, 1984.

Class 3 No 155021 Metal Box P.L.C. a British Company of Queens House, Forbury Road, Reading RG1

3JH, Berkshire, England. "a Bottle". Reciprocity date is 5th May, 1984 (U.K.).

Class 3. No. 155054. Cello Plastic Industrial Works, Vakil Industrial Estate, Walbhat Road, Goregaon East, Bombay 400 063, Maharashtra, an Indian Partnership Firm. "Tray". 15th November, 1984.

Class 3. No. 155057. Cello Plastic Industrial Works, Vakil Industrial Estate, Walbhat Road, Goregaon East, Bomby 400 063, Maharashtra, an Indian Partnership Firm. "Four in-one Tray Set". 15th November, 1984.

Class 3. No. 155067. Mamta Electronics, an Indian sole proprietory firm of 201, Sanghavi Industrial Estate, Near Government Industrial Estate, M.G. Road, Kandivlj Bombay-400 067, Maharashtra, "HORN". 17th November, 1984.

Class 3. No. 155083. Eagle Flask Private Limited, under the Indian Companies Act, at Eagle Estate, Talegaon 410 507, District Pune, State of Maharashtra, India. "Clip". 23rd November, 1984.

Class 3. No 154881. Milan Supari Company Private Limited, 157, Shrift Devji Street, Bombay 400 003, Maharashtra State, India, an Indian Company. "The front view, Perspective view and side view of a container." 25th September, 1984.

Class 3. No. 154894. Dilip Purshotam Somaya, (Indian National) A-3 Amarjivan Co-op. Housing Society, 273 S. Bapat Marg, Matunga Road, Bombay-400 016, State of Maharashtra, India. "Fastner". 28th September, 1984.

Class 3. No. 154928. TIP-TOP EMPORIUM Old Ganjuwalla Building, Tardeo Road, Tardeo, Bombay-400 034, Maharashtra, an Indian Partnership Firm. "Electric Bell". 8th October, 1984.

Class 6. No. 154569. Benjamin Crook & Sons Limited, a British Company, of Bay Hall Works, Birkby, Huddersfield HD1 5AJ, West Yorkshire, England. "a Ball". 6th July, 1984.

Class 12. No. 154880. 1. S Kartar Singh, 2. S. Rajender Singh, and 3. S. Kuljeet Singh, Citizens of India Asoka Biscuit Works, 2-3-745/2, Amberpet, Hyderabad Andhra Pradesh State. "Biscuits". 25th September, 1984.

Extn. of copyright for the Third period of five years.

Nos. 142524, 142512, 152513. .....Class 1.

Nos. 142525, 142664, 142514, 142515. .....Class 3.

Nos. 142526, 142665, 142516, 142517. .....Class 4.

R. A. ACHARYA
Controller General of Patents, Designs and Trade Marks

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